

Naval Education and  
Training Command

NAVEDTRA 12061  
October 1997  
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Special  
Publication



# Catalog of Nonresident Training Courses

## OCTOBER 1997 EDITION



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## FOREWORD

This *Catalog of Nonresident Training Courses, October 1997 Edition* NAVEDTRA 12061, Stock Number (SN) 0502-LP-013-0190 replaces the following item:

- *Catalog of Nonresident Training Courses, March 1997 Edition*, NAVEDTRA 12061 (SN 0502-LP-003-3390)

The Naval Education and Training Professional Development and Technology Center (NETPDTC), formerly NETPMSA (Naval Education and Training Program Management Support Activity), publishes a new edition of this catalog each year, with an update (supplement) or new edition published during the year. Each new edition will completely replace the previous edition, and any supplement.

This catalog is designed with you, the user, in mind. It describes professional military and career development courses and specialized courses, explains eligibility requirements and ordering instructions, and provides administering data and general information about nonresident training. **Refer to the table on the next page to obtain assistance or offer suggestions.**

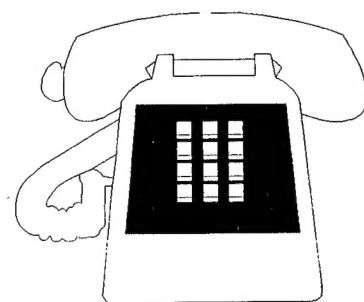
## ABBREVIATIONS AND TERMS

ABBREVIATIONS	TERMS	ABBREVIATIONS	TERMS
AUTODIN	Automatic Digital Network	OCCSTDs	Occupational Standards
CNET	Chief of Naval Education and Training	PARs	Personnel Advancement Requirements
COMMRI	Communication Routing Indicator	PQS	Personnel Qualification Standards
DAAS	Defense Automatic Addressing System	QR	Quantity Restriction (See note below)
DAASO	Defense Automatic Addressing System Office	SALTS	Streamlined Automated Logistics Transmission System
DSN	Defense Switched Network	SN	Stock Number
ESO	Educational Services Officer	SP	Special Publication
IRR	Individual Ready Reserve	TRAMAN	Training Manual
MILSTRIP	Military Standard Requisitioning and Issue Procedures	UIC	Unit Identification Code
NAVICP	Naval Inventory Control Point		
NAVSTDs	Naval Standards		
NETPDTC	Naval Education and Training Professional Development and Technology Center (formerly NETPMSA)		
NRTC	Nonresident Training Course		

NOTE: Quantity Restriction (QR) - this terms applies to the number of copies your command may request on each order. You may order less than the number listed but you can not order more unless you follow the directions on how to exceed quantity restrictions found on page 1-4.

## GETTING HELP VIA TELEPHONE

The table below lists contact points for assistance.



WHAT YOU NEED HELP WITH	TELEPHONE NUMBER	
Ordering items from PART 1 of this catalog.	a. With AUTODIN: DSN: 442-4067, COMMERCIAL: (215) 697-4067. b. With ordering pubs: DSN: 442-2626 COMMERCIAL: (215) 697-2626 c. About the IBM compatible program, or SALTS: DSN 442-1488, COMMERCIAL (215) 697-1488. d. Other info: DSN 922-1328, COMMERCIAL (850) 452-1328	
Other Training Products (in this catalog) Chaplain Corps Naval Dental School Naval Meteorology and Oceanography Naval School of Health Sciences Naval Security Group STEP (Shipboard Training Enhancement Program)	<u>DSN</u> 922-1656 295-0205 485-5075 N/A 922-1688 922-1640	<u>COMMERCIAL</u> 850-452-1656 301-295-0205 N/A 804-398-7627/5042 850-452-1688 850-452-1640
NETPDTC IRR Correspondence Course Center (Enrollment Data, Grades, Points, etc.) <b>NOTE: Some items in this catalog are not offered to IRRs, Sea Cadets, or NJROTC personnel. Consult the Correspondence Course Center Catalog for selection of products available.</b>	<u>DSN</u> 922-1511/1859	<u>COMMERCIAL</u> 850-452-1511/1859
Navy Advancement Exams Development Discrepancies/Administration/Shipping	<u>DSN</u> 922-1815 922-1252	<u>COMMERCIAL</u> 850-452-1815 850-452-1252
Personnel Qualification Standards (PQS) Development NETPDTC Bulletin Board	<u>DSN</u> 922-1035/1708 922-1394/1820	<u>COMMERCIAL</u> 850-452-1035/1708 850-452-1394/1820
Information about this catalog. How to use it. How to improve it. How to obtain it.  INTERNET ADDRESS: navy.advancement@smtp.cnet.navy.mil	<u>DSN</u> 922-1328	<u>COMMERCIAL</u> 850-452-1328



## PRODUCTS BY RATINGS

1. Beginning MARCH 1998, the Bibliography for Advancement-in-Rate Exam Study (BIB) will be available **ONLY** in ELECTRONIC form. Electronic BIBS will be posted **THREE TIMES** each year, in MARCH, JULY, and SEPTEMBER at the following locations:

- **NETPDTC Bulletin Board**--DSN 922-1394/1820 or Commercial (850) 452-1394/1820
- **NETPDTC Homepage** at:  
<http://www.cnet.navy.mil/netpdtc/netpdtc.htm>  
**To go directly to BIBS**  
<http://www.cnet.navy.mil/netpdtc/nac/bibs/bibs.htm>
- **BUPERS ACCESS Bulletin Board**--DSN 224-8070 or commercial (800) 346-0217/0218/0227 or (703) 614-6059/8070/8076
- **SALTS** (Streamlined Automated Logistics Transmission System)--For information on how to access SALTS, see your Supply Department, or call DSN 442-1112 or commercial (215) 697-1112  
**SALTS Homepage** at:  
[http://www\\_salts.icpphil.navy.mil](http://www_salts.icpphil.navy.mil)  
**To download BIBs directly:**  
[http://www\\_salts.icpphil.navy.mil/downloads/bibs\\_pars/bibs\\_pars.html](http://www_salts.icpphil.navy.mil/downloads/bibs_pars/bibs_pars.html)

2. Each BIB issue is for a different set of exams.

- BIBS issued in MARCH are for active duty E-4/5/6 September exams and for Selective Reserve E-4/5/6 February exams.
- BIBs issued in JULY are for active duty E-7 January exams and for Selective Reserve E-7 February exams - of the following year. (Example: BIBS issued for active duty E-7 exams in 1998 will be used for Selective Reserve E-7 exams in 1999.)
- BIBs issued in SEPTEMBER are for active duty E-4/5/6 March exams and for Selective Reserve E-4/5/6 August exams.

3. TRAMANS and NRTCs availability - see appropriate chapters in this catalog.

4. Call the applicable telephone number listed below if you have questions about a TRAMAN or NRTC.

RATING	TELEPHONE NUMBER	
AW, DP, ET(SS), EW, FC, FT, IS, MM(SS), MN, MT, OS, OT, RM, STG, STS, TM	<u>DSN</u> 922-1335	<u>COMMERCIAL</u> 850-452-1335
AK, DK, DM, DN, DT, HM, HN, JO, LI, LN, MA, MS, MU, NC, PC, PN, RP, SH, SK, YN	<u>DSN</u> 922-1648	<u>COMMERCIAL</u> 850-452-1648
BM, BU, CE, CM, CN, DC, EA, EO, EM, EN, FN, GS, HT, IC, IM, ML, MM(SW), MR, OM, PH, PM, QM, SM, SN, SW, UT	<u>DSN</u> 922-1795	<u>COMMERCIAL</u> 850-452-1795
AB, AC, AD, AE, AG, AM, AN, AO, AS, AT, AZ, DS, ET(SW), GM, PR	<u>DSN</u> 922-1777	<u>COMMERCIAL</u> 850-452-1777
CTA, CTI, CTM, CTO, CTR, CTT	<u>DSN</u> 922-1688	<u>COMMERCIAL</u> 850-452-1688

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## **GENERAL INFORMATION**

### **NONRESIDENT TRAINING**

The Chief of Naval Education and Training (CNET) is responsible for providing nonresident training in support of Occupational Standards (OCCSTDs), and Naval Standards (NAVSTDs).

Nonresident training is a self-study package designed to help a student acquire specific knowledge. Normally, a nonresident training package consists of a nonresident training course (NRTC) and a text.

#### **Nonresident Training Course (NRTC)**

An NRTC may consist of exercises, lessons, or examinations designed to assist the student in acquiring the knowledge contained in an associated text.

#### **Texts Associated with NRTCs**

The text for an NRTC may be any of the following:

- A training manual (TRAMAN) written specifically to be used as the text for an NRTC.
- An existing manual, directive, or instruction.
- A commercial textbook.

#### **Errata**

Errata are often used to correct minor errors or delete obsolete information in an NRTC or text. Errata may also be used to provide instructions to the student. Normally, errata are automatically shipped with an NRTC or text.

#### **Special Publications (SP)**

Special publications are manuals or catalogs that provide information of general benefit to the performance and career development of Navy personnel. SPs DO NOT have an accompanying NRTC.

### **ESTABLISHING OF NONRESIDENT TRAINING**

Anyone may propose a new nonresident training package. Proposals should be forwarded to CNET (N5221) via the originator's chain of command.

### **ADMINISTERING NONRESIDENT TRAINING**

Servicing Educational Services Officers (ESO) will administer nonresident training to both officer and enlisted personnel, active duty and Reserve. This does not apply to Individual Ready Reserve (IRR), Sea Cadet, or NJROTC personnel who will be administered by the Naval Education and Training Professional Development and Technology Center (NETPDTC).

**NOTE: Some items in this catalog are not offered to IRRs, Sea Cadets, or NJROTC personnel. Consult the Correspondence Course Center Catalog for selection of products available.**

## GENERAL INFORMATION

### NONRESIDENT TRAINING AVAILABLE FROM OTHER SERVICES

Courses of potential interest to members of all military services are provided under the sponsorship of the Department of Defense. Available to all military personnel, through an interservice agreement, are courses offered by the Air Force, Army, Coast Guard and Marine Corps. Information about nonresident training available from other services is given in the table below. The catalog of a specific service should be checked before applying for enrollment for special procedures and/or eligibility requirements. Personnel interested in subjects given by another service should, **THROUGH THEIR SERVICING ESO**, correspond with the appropriate agency for up-to-date information.

ORGANIZATION	CATALOG	ADDRESS
Air Force	ECI Catalog (Request catalog on letterhead)	ECT/EDOR Maxwell AFB (Gunter Annex), AL 36118-5643
Army	DA Pamphlet 351-20 (Order by DD-1149)	USA AG Publication Center 2800 Eastern Blvd. Baltimore, MD 21220
Coast Guard	List of Correspondence Courses, E46003 (Request catalog on letterhead)	Commanding Officer U.S. Coast Guard Institute P.O. Substation 18 Oklahoma, OK 73169-6999
Marine Corps	MCI Catalog (Request catalog on letterhead)	Director Marine Corps Institute Arlington, VA 22222

## GENERAL INFORMATION

### LISTING OF OBSOLETE NONRESIDENT TRAINING COURSES (NRTC's)

Answer sheets for the below obsolete NRTC's **should not** be accepted for processing after the established cut-off date. Students **must** turn in answer sheets for these NRTC's prior to the cut-off date to receive credit for that edition of the NRTC.

OBSOLETE NAVEDTRA	OBSOLETE TITLE	OBSOLETE DATE	CUT-OFF DATE	REPLACEMENT NAVEDTRA
10188	GMM 3&2, VOL 1	20DEC96	20NOV97	72443
10189	GMM 3&2, VOL 2	20DEC96	20NOV97	72443
10269-K1	SK 3&2	27SEP96	27APR98	82650
10271-1	IS 3&2, VOL 1	06JAN97	06JAN98	82804
10276-1	FC3	17JUL97	17JAN99	12403, 12404, 12405, 12406, 12407, 12408,
10362-B1	AG 1&C	13FEB96	13AUG97	82853
10980-F	SUPPLY AFLOAT	7JAN96	7APR98	13090
12011-A	AMR SUPERVISOR	25MAR97	25JAN98	DISCONTINUED
72104	SM 3&2	27SEP96	27FEB98	72104-A
80272	IS 3&2 VOL 2	06JAN97	06JAN98	82804
80277-A	FC2	17JUL97	17JAN99	12403, 12404, 12405, 12406, 12407, 12408
80291	GMM1	20DEC96	20JAN98	82443
80292	GMG1	20DEC96	20JAN98	82443
80396	AKC	27SEP96	27DEC97	82657
80472	DM 3&2	26JUN97	26MAR99	12723
80473	DM1&C	26JUN97	26FEB98	12723
80653	SW 3&2	19DEC96	19FEB98	82529
80654	SW1	03JAN97	03OCT97	82530
82330	AT2(O)	06FEB97	06NOV97	DISCONTINUED
82413	ET, VOL 3	17JUL97	17FEB98	12413-A
82416	ET, VOL 6	17JUL97	17MAY98	82416-A
82442	GMG 3&2	20DEC96	20NOV97	72443
82471	OTM	22JAN97	22OCT97	82499
82474	OTA	22JAN97	22MAY98	82499
82482	STG 3&2	22JAN97	22JAN98	82497/82498
82960	PRIN OF NAVAL ENG	01OCT95	01OCT97	DISCONTINUED

## GENERAL INFORMATION

### WHAT'S NEW IN PART 1!

TITLE	NAVEDTRA NUMBER	TYPE	STOCK NUMBER
Aircrew Survival Equipmentman 1 & C (TRAMAN has <b>NOT</b> been revised--new stock ordering number issued for TRAMAN)	10330	TRAMAN	0502-LP-012-2430 (new stock # only)
Aviation Electrician's Mate (AE)	71155-A	PARs	0505-LP-012-9120
Cryptologic Technician (Collection) CTR	71579-A	PARs	0505-LP-012-8680
Dental Technician (DT)	71400-A	PARs	0505-LP-012-9580
Electronics Technician, Volume 3	12413-A 12413-A	TRAMAN/NRTC ANSWER KEY	0502-LP-012-8820 0504-LP-012-8830
Electronics Technician, Volume 6	12416-A 82416-A 82416-A	TRAMAN NRTC ANSWER KEY	0502-LP-003-3660 0503-LP-003-3670 0504-LP-003-3680
Engineering Aid 2	72540	ERRATA #1	0503-LP-477-8901
Equal Opportunity in the Navy	13099-E	NRTC ANSWER KEY	0503-LP-003-5280 0504-LP-003-5310
Fire Controlman, Volume 1	12403	TRAMAN/NRTC ANSWER KEY	0502-LP-003-3690 0504-LP-003-3720
Fire Controlman, Volume 2	12404	TRAMAN/NRTC ANSWER KEY	0502-LP-003-3730 0504-LP-003-3750
Fire Controlman, Volume 3	12405	TRAMAN/NRTC ANSWER KEY	0502-LP-003-3760 0504-LP-003-3780
Fire Controlman, Volume 4	12406	TRAMAN/NRTC ANSWER KEY	0502-LP-003-3790 0504-LP-003-3820
Fire Controlman, Volume 5	12407	TRAMAN/NRTC ANSWER KEY	0502-LP-483-2900 0504-LP-777-9200
Fire Controlman, Volume 6	12408	TRAMAN/NRTC ANSWER KEY	0502-LP-483-3200 0504-LP-777-9300
Illustrator Draftsman, Volume 4	12723	TRAMAN/NRTC ANSWER KEY	0502-LP-481-7600 0504-LP-003-7260
Interior Communications Electrician, Volume 2	82161	ERRATA #2	0503-LP-476-5802

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Machinist's Mate 3 & 2 (Surface)	12146 82146 82146	TRAMAN NRTC ANSWER KEY	0502-LP-007-8180 0503-LP-007-8190 0504-LP-007-8210
Master-at-Arms	82740	ERRATA #1	0503-LP-478-7101
Missile Technician (MT)	71285-A	PARs	0505-LP-003-7250
Naval Construction Force/ Seabee 1 & C	82543	ERRATA #2	0503-LP-479-5102
Postal Clerk (PC)	71435-A	PARs	0505-LP-012-8690
Quartermaster 1 & C	82120	ERRATA #1	0503-LP-479-6701
Quartermaster 3 & 2	72120	ERRATA #3	0503-LP-479-6603
Seabee Combat Handbook, Volume 2	82004	ERRATA #1	0503-LP-482-1801
Signalman Signalman 1 & C Signalman 3 & 2	12104-A 82104-A 72104-A	ERRATA #1 ERRATA #1 ERRATA #1	0502-LP-482-1301 0503-LP-482-1401 0503-LP-482-1601
Sonar Technician (Submarine) (STS)	71311-A	PARs	0505-LP-012-9130

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### LISTING OF COURSES BY NAVEDTRA NUMBER

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# PART 1

## GENERAL NONRESIDENT TRAINING

### ORDERING INSTRUCTIONS FOR ITEMS LISTED IN PART 1

#### WHO CAN ORDER ITEMS LISTED IN PART 1

ANY DEPARTMENT OF DEFENSE ACTIVITY WITH A VALID DODAAD CODE AND ADDRESS CAN ORDER USING MILSTRIP FORMAT.

PRIVATE AND COMMERCIAL ACTIVITIES AND INDIVIDUALS MUST ORDER UNDER THE NAVICP-PHILA CASH SALE PROCEDURES.

CONTACT NAVICP-PHILADELPHIA, CODE 033343, 700 ROBBINS AVENUE, PHILADELPHIA, PA 19111-5098; PHONE (215) 697-2626 FOR ADDITIONAL ORDERING INFORMATION.

#### FIRST:

Find the product (PAR, TRAMAN, NRTC, SP, ERRATA, or ANSWER KEY) by thumbing through the pages of PART 1 (products are listed alphabetical by title), or by referring to the List of Products by NAVEDTRA Number or List of Products by Title/Subject. Note the Navy Stock Number (SN) and any Per Order Quantity Restriction (QR) for each product.

#### THEN:

1. Order in MILSTRIP format using Navy Stock Number (SN) from Naval Inventory Control Point Philadelphia (NAVICP-PHILA) using Routing Identifier Code (RIC) "NFZ".

**NOTE: REFER TO NAVSUP PUBLICATION 409 FOR INSTRUCTIONS ON USING MILSTRIP. ALSO, SEE PAGES 1-2 AND 1-3 FOR EXAMPLES.**

2. Transmission Methods:

- a. Via AUTODIN to the Defense Automatic Addressing System Office (DAASO) using communication routing indicator (COMMRI) RUC1ZZA.
- b. Via message format to the Defense Automatic Addressing System (DAAS), Dayton OH using COMMRI RUEOZNA.
- c. Via SALTS. MILSTRIP requisitions must be in ASCII format.
- d. Via NAVICP-PHILA Bulletin Board: **MILSTRIP requisitions must be in ASCII format.**

1) Requisition submission and supply news: DSN 442-0186, COM (215) 697-0186

2) Requisition status (last 45 days): DSN 442-1427, COM (215) 697-1427.

- e. Via diskette or floppy disk using an IBM compatible MILSTRIP generation program which is available from NAVICP-PHILA.

3. For assistance at NAVICP-PHILA:

- a. With AUTODIN: DSN 442-2267, COM (215) 697-2267.
- b. HOT LINE (Hrs 0700-1600 EST): DSN 442-2626, COM (215) 697-2626.
- c. SALTS, Bulletin Board, or IBM compatible program: DSN 442-1488, COM (215) 697-1488.

# **PART 1**

## **GENERAL NONRESIDENT TRAINING**

### **ORDERING VIA MILSTRIP**

At most commands, the ESO is the focal point for ordering, receiving, grading, and recording the scores of nonresident training courses. Here's basically how the "system" should work: After courses are developed (by chief petty officers in the rating), most are sent to commercial printers (via the Defense Automated Printing Service and the Government Printing Office) for printing. After printing, the courses are shipped to the Navy Inventory Control Point (NAVICP) warehouse at Mechanicsburg, PA, where they are stocked awaiting ESO's requisitions. Courses are generally ordered by using MILSTRIP requisitions. (Page 1-1 of outlines ordering methods.)

### **SOME TIPS FOR THE ESO**

- **Anticipate your command's needs.** Place orders as far in advance as possible.
- **Make sure your MILSTRIP requisition is accurate.** Double check all fields. Remember: **GARBAGE IN - GARBAGE OUT!** Use the MILSTRIP Handbook, and refer to the samples on the following page.
- **Use the fastest and most direct means available to transmit MILSTRIP requisitions.** (Refer to the transmission methods listed on Page 1-1.)
- **Have a feel for about how long it should take an order to arrive.** The more distant a command from the warehouse, the longer it takes for the order to arrive; large orders take longer than small orders; deployed commands should expect some delay in receiving orders. Don't forget about the **"Required Delivery Date"** field in positions 62-64 of the MILSTRIP.
- **Track all MILSTRIP requisitions to make sure each order is filled.** Commands with a successful track record in obtaining TRAMANs on a timely basis employ a sound requisition and tracking system. (Use the HOTLINE number provided on Page 1-1.)

### **SAMPLE MILSTRIP AND EXPLANATIONS**

NAVSUP Publication 409 (MILSTRIP/MILSTRAP Desk Guide) provides guidance in preparing electronic MILSTRIP requisition. This pub may be ordered using stock number 0530-LP-190-6200.

The sample on the next page provides examples and explanations to assist you in completing MILSTRIP requisitions.



# PART 1

## GENERAL NONRESIDENT TRAINING

Sample MILSTRIP: A0DNFZS0640LP6104500 EA00001N683227204ML25RYN8323D 0IYY915

A0D NFZ S 0640LP6104500 EA 00001 N683227204ML25 R YN8323 D 0I YY9 15

A B C D E F G H I J L M N

POSITION	DESCRIPTION
1-3 (A)	<b>DOCUMENT IDENTIFIER:</b> A 3-element code which indicates the purpose and use of the document, such as requisition, follow-up, or status. (A0D, A0E, A25, etc.)
4-6 (B)	<b>ROUTING IDENTIFIER CODE:</b> A 3-element code used to represent the address of the intended recipient of the requisition. (NFZ, SGA, N25, etc.)
7 (C)	<b>MEDIA AND STATUS CODE:</b> A 1-element code that indicates if the sender requires that a status of the requisition to be furnished, and the means of transmission for the status reply.
8-22 (D)	<b>STOCK NUMBER:</b> A 15-element code that identifies the item being requisition. (0502LP2124400, 0503LP2174600, etc.) Leave unused positions <b>BLANK</b> .
23-24 (E)	<b>UNIT OF ISSUE:</b> A 2-element code that indicates the types of units under which the material is issued. (EA = each, PD = pad, etc.)
25-29 (F)	<b>QUANTITY:</b> 5 digits that represent the number of units being requested. Numeric zeros precede significant digits. (00001, 00050, 00100, etc.)
30-43 (G)	<b>DOCUMENT NUMBER:</b> A 14-element field that represents the following 4 basic elements: 30 = Service Code (N = Navy, A = Army, etc.) 31-35 = UIC of requesting command 36-39 = Julian Date 40-43 = Serial Number (Not duplicated on the same day) Example: N683227204ML25
44 (H)	<b>DEMAND/SUFFIX CODE:</b> A single letter representing the demand. (R = recurring demand, N = nonrecurring demand, etc.)
45-50 (I)	<b>SUPPLEMENTARY ADDRESS:</b> A 6-element field used to identify the activity (UIC) to receive the material - if other than the requesting activity. If not required, enter a "Y" in position 45 to indicate data in 46-50 is not significant to the system but is to be perpetuated in document processing (internal command address).
51 (J)	<b>SIGNAL CODE:</b> A single letter that signifies who the material is to be shipped to. (Enter a "D" if material is to be shipped to requisitioner. Enter an "M" if material is to be shipped to Supplementary Address.)
52-53 (K)	<b>FUND CODE:</b> A 2-element for the requisitioner to indicate the funds to be charged. (May be left <b>BLANK</b> .)
54-56 (L)	<b>DISTRIBUTION FIELD:</b> A 3-element field that represents the following: 54 = Designates activities eligible to receive additional status. (May be left <b>BLANK</b> ) 55-56 = Account Code/Cognizance Symbol
57-59 (M)	<b>PROJECT CODES:</b> A 3-element field
60-61 (N)	<b>PRIORITY:</b> A 2-digit field that indicates the priority of the requisition.
62-64 (O)	<b>REQUIRED DELIVERY DATE:</b> A 3-digit field that expresses a required delivery date (Julian Date). (May be left <b>BLANK</b> .)
65-66 (P)	<b>ADVICE/STATUS CODE:</b> A 2-element field that may be entered by the requisitioner to provide coded instructions to the supply source. (May be left <b>BLANK</b> .)

# PART 1

## GENERAL NONRESIDENT TRAINING

INFORMATION ABOUT ITEMS LISTED IN PART 1	
<p>HOW TO EXCEED PER ORDER QUANTITY RESTRICTIONS</p> <p><b>NOTE: QUANTITY RESTRICTIONS FOR ANSWER KEYS AND PARS MAY NOT BE EXCEEDED.</b></p> <p>ANSWER KEYS:           1 PARS:                   10</p>	<ol style="list-style-type: none"> <li>Send requests in MILSTRIP format on <b>COMPUTER DISK</b> or via <b>ELECTRONIC MEANS</b> to:   <div style="text-align: center;"> Commanding Officer  NETPDTC (N319)  6490 Saufley Field Road  Pensacola Florida 32509-5237 </div> <p>e-mail: navy.advancement@smtp.cnet.navy.mil  SALTS: NETPDTC PMA</p> </li> <li>Requests must include a separate letter on <b>command letterhead signed by the commanding officer or "By direction"</b> that fully justifies the excess order. Include a point-of-contact with a phone number.</li> </ol>
<p>SPECIAL INSTRUCTIONS FOR ORDERING ANSWER KEYS</p>	<ol style="list-style-type: none"> <li>Answer keys may be ordered <b>ONLY</b> by a command Educational Services Officer (ESO).</li> <li>Answer keys may be ordered <b>ONLY</b> by U.S. Navy commands with a valid Unit Identification Code (UIC).</li> <li>ESOs may order <b>ONLY</b> one (1) answer key for each course administered at that command.</li> <li>Answer keys are obtained using the same ordering procedures for TRAMANs and NRTC's. <b>ANSWER KEYS ARE NOT ORDERED FROM NETPDTC.</b></li> </ol>
<p>INFORMATION ABOUT CLASSIFIED COURSES</p>	<ol style="list-style-type: none"> <li>Classified courses are released <b>ONLY</b> to the custody of the student's commanding officer. Reserve units commanded by inactive reserve officers <b>DO NOT</b> qualify for custody.</li> <li>Before ordering a classified course, ESOs should ensure: <ol style="list-style-type: none"> <li>The student has a legitimate need for the course and the appropriate security clearance.</li> <li>Safeguards are available to provide required protection for the course.</li> </ol> </li> <li>Classified courses must be stowed, controlled and destroyed in the same manner as other classified material.</li> </ol>

# PART 1

## GENERAL NONRESIDENT TRAINING

INFORMATION ABOUT ITEMS LISTED IN PART 1	
HOW TO CONTROL ANSWER KEYS	<ol style="list-style-type: none"> <li>1. Answer keys must be controlled and maintained by a commissioned officer or an ESO at all times.</li> <li>2. Original answer keys and locally duplicated copies of answer keys require the same security as advancement examinations. (BUPERSINST 1430.16)</li> <li>3. Report loss of answer keys in the same manner as reporting a lost advancement examination.</li> <li>4. Destroy answer keys in accordance with local instructions for destroying classified material.</li> <li>5. The following practices are authorized: <ol style="list-style-type: none"> <li>a. Sub-custody of answer keys to division officers.</li> <li>b. Grading by enlisted personnel under the direct and continuous supervision of a commissioned officer or ESO.</li> </ol> </li> </ol>
STUDENTS MAY	<ol style="list-style-type: none"> <li>1. Refer freely to texts and reference materials.</li> <li>2. Seek advice and instructions from others, but answers must be their own.</li> </ol>
STUDENTS MAY NOT	<ol style="list-style-type: none"> <li>1. Refer to or copy the solutions of others, or give completed solutions to anyone else taking the same course.</li> </ol>
INFORMATION ABOUT ANSWER SHEETS	<ol style="list-style-type: none"> <li>1. One answer sheet is provided in the back of each NRTC. This sheet may be duplicated for local use.</li> <li>2. Order Answer Sheets, NAVEDTRA 1430/5, from NAVICP by SN 0502-LP-216-0100.</li> <li>3. Order Resubmit Answer Sheets, NAVEDTRA 1430/3, from NAVICP by SN 0502-LP-218-0600. Resubmit Answer Sheet may also be reproduced locally.</li> </ol>

# PART 1

## GENERAL NONRESIDENT TRAINING

INFORMATION ABOUT ITEMS LISTED IN PART 1	
GRADING AND REPORTING INSTRUCTIONS	<ol style="list-style-type: none"> <li>1. Order Grading Table, NAVEDTRA 1430/4, from NAVICP by SN 0502-LP-218-2100. The grading table may be reproduced locally.</li> <li>2. ESOs record and report grades as follows: <ol style="list-style-type: none"> <li>a. Officer - Page 1070/613</li> <li>b. Enlisted - Page 1070/604</li> </ol> </li> <li>3. Report grades for Naval Reservists via RSTARS</li> <li>4. Do NOT return graded answer sheets to the student. Graded answer sheets are destroyed by the ESO by using accepted destruction practices.</li> <li>5. Inform student which question was missed and where to find the correct answer.</li> </ol>
GRADES	<ol style="list-style-type: none"> <li>1. The passing score for all assignments and courses is 3.2.</li> <li>2. Students are required to rework failed assignments. The maximum score on resubmissions is 3.2.</li> </ol>
RETIREMENT POINTS (Retirement points are listed for each NRTC in Part 1 of this catalog.)	<ol style="list-style-type: none"> <li>1. Applicable only to certain Naval Reserve Personnel not on active duty.</li> <li>2. Refer to BUPERSINST 1001.39 for instructions pertaining to the awarding of retirement points.</li> </ol>

# PART 1 GENERAL NONRESIDENT TRAINING

## PERSONNEL ADVANCEMENT REQUIREMENTS (PARs)

### STOCK NUMBERS FOR PERSONNEL ADVANCEMENT REQUIREMENTS (PARS)

Listed below are stock numbers (SN) for each rating's PARs. Order PARs in the same manner as TRAMANs or NRTC's. (See page 1-1 for ordering instructions.) Local duplication of these PARs is authorized and encouraged.

The per order quantity restriction (QR) for each PAR is 10.

RATING	DATE	STOCK NUMBER	NAVEDTRA
AEROGRAPHER'S MATE	JUL 96	0505-LP-001-9820	71650
AIR TRAFFIC CONTROLLER	JAN 96	0505-LP-001-9160	71225
AIRCREW SURVIVAL EQUIPMENTMAN	JUL 96	0505-LP-001-9080	71190
AVIATION BOATSWAIN'S MATE (AIRCRAFT HANDLING)	JUL 96	0505-LP-001-9140	71202
AVIATION BOATSWAIN'S MATE (FUELS)	JAN 96	0505-LP-001-9130	71201
AVIATION BOATSWAIN'S MATE (LAUNCHING & RECOVERY EQUIPMENT)	JAN 96	0505-LP-001-9090	71200
AVIATION ELECTRICIAN'S MATE	MAY 97	0505-LP-012-9120	71155-A
AVIATION ELECTRONICS TECHNICIAN (INTERMEDIATE MAINTENANCE)	JAN 96	0505-LP-001-9050	71175
AVIATION ELECTRONICS TECHNICIAN (ORGANIZATIONAL MAINTENANCE)	JAN 96	0505-LP-001-9060	71176
AVIATION MACHINIST'S MATE	JUL 96	0505-LP-001-8940	71150
AVIATION MAINTENANCE ADMINISTRATIONMAN	JAN 96	0505-LP-001-9070	71185
AVIATION ORDNANCEMAN	JAN 96	0505-LP-001-8990	71165
AVIATION STOREKEEPER	JAN 96	0505-LP-001-9570	71475
AVIATION STRUCTURAL MECHANIC (HYDRAULICS)	JUL 96	0505-LP-001-8970	71161
AVIATION STRUCTURAL MECHANIC (SAFETY EQUIPMENT)	JUL 96	0505-LP-001-8960	71160

# PART 1

## GENERAL NONRESIDENT TRAINING

RATING	DATE	STOCK NUMBER	NAVEDTRA
AVIATION STRUCTURAL MECHANIC (STRUCTURES)	JUL 96	0505-LP-001-8980	71162
AVIATION SUPPORT EQUIPMENT TECHNICIAN	JAN 96	0505-LP-001-9150	71205
AVIATION WARFARE SYSTEMS OPERATOR (ACOUSTIC)	JUL 96	0505-LP-001-9830	71675
AVIATION WARFARE SYSTEMS OPERATOR (HELICOPTER)	JUL 96	0505-LP-001-9840	71676
AVIATION WARFARE SYSTEMS OPERATOR (NON-ACOUSTIC)	JUL 96	0505-LP-001-9850	71677
BOATSWAIN'S MATE	JAN 96	0505-LP-001-8760	71000
BUILDER	JAN 96	0505-LP-001-9370	71350
CONSTRUCTION ELECTRICIAN	JAN 96	0505-LP-001-9380	71355
CONSTRUCTION MECHANIC	JAN 96	0505-LP-001-9390	71360
CRYPTOLOGIC TECHNICIAN (ADMINISTRATIVE)	APR 96	0505-LP-001-9720	71575
CRYPTOLOGIC TECHNICIAN (COLLECTION)	APR 97	0505-LP-012-8680	71579-A
CRYPTOLOGIC TECHNICIAN (COMMUNICATIONS)	JAN 96	0505-LP-001-9750	71578
CRYPTOLOGIC TECHNICIAN (INTERPRETIVE)	JAN 96	0505-LP-001-9730	71576
CRYPTOLOGIC TECHNICIAN (MAINTENANCE)	JAN 96	0505-LP-001-9740	71577
CRYPTOLOGIC TECHNICIAN (TECHNICAL)	JAN 96	0505-LP-001-9780	71580
DAMAGE CONTROLMAN	JAN 96	0505-LP-001-8860	71100
DATA SYSTEMS TECHNICIAN	JAN 96	0505-LP-001-9360	71330
DENTAL TECHNICIAN	JUN 97	0505-LP-012-9580	71400-A
DISBURSING CLERK	JAN 96	0505-LP-001-9580	71480
ELECTRICIAN'S MATE	JAN 96	0505-LP-001-8800	71055

# PART 1

## GENERAL NONRESIDENT TRAINING

RATING	DATE	STOCK NUMBER	NAVEDTRA
ELECTRONICS TECHNICIAN (SUBMARINE)	JUL 96	0505-LP-001-9180	71250
ELECTRONICS TECHNICIAN (SURFACE)	JAN 96	0505-LP-001-9190	71251
ELECTRONIC TECHNICIAN (SURFACE) (PARs for new ET(Surface)/DS Rating. First exam in <b>SEP 98</b> )	SEP 96	0505-LP-003-2360	71682
ELECTRONICS WARFARE TECHNICIAN	JUL 96	0505-LP-001-9280	71300
ENGINEERING AID	JAN 96	0505-LP-001-9410	71365
ENGINEMAN	JAN 96	0505-LP-001-8810	71060
EQUIPMENT OPERATOR	JAN 96	0505-LP-001-9420	71370
FIRE CONTROL TECHNICIAN	JUN 96	0505-LP-001-9220	71261
FIRE CONTROLMAN	JUN 96	0505-LP-001-9210	71255
FIRE CONTROLMAN (PARs for new FC/DS Rating. First exam in <b>SEP 98</b> )	DEC 96	0505-LP-003-3630	71683
GAS TURBINE SYSTEMS TECHNICIAN (ELECTRICAL)	JUN 96	0505-LP-001-8820	71065
GAS TURBINE SYSTEMS TECHNICIAN (MECHANICAL)	JUN 96	0505-LP-001-8830	71066
GUNNER'S MATE	DEC 96	0505-LP-003-3640	71684
HOSPITAL CORPSMAN	JUL 96	0505-LP-001-9460	71405
HULL MAINTENANCE TECHNICIAN	JAN 96	0505-LP-001-8870	71105
ILLUSTRATOR DRAFTSMAN	JAN 96	0505-LP-001-9630	71500
INSTRUMENTMAN	JAN 96	0505-LP-001-8880	71110
INTELLIGENCE SPECIALIST	JAN 96	0505-LP-001-9810	71625
INTERIOR COMMUNICATIONS ELECTRICIAN	JUN 96	0505-LP-001-8840	71070
JOURNALIST	JUL 96	0505-LP-001-9640	71505
LEGALMAN	JAN 96	0505-LP-001-9470	71425

# PART 1

## GENERAL NONRESIDENT TRAINING

RATING	DATE	STOCK NUMBER	NAVEDTRA
LITHOGRAPHER	JUL 96	0505-LP-001-9650	71510
MACHINERY REPAIRMAN	JAN 96	0505-LP-001-8910	71120
MACHINIST'S MATE (SUBMARINE)	JUL 96	0505-LP-001-8850	71075
MACHINIST'S MATE (SURFACE)	JUL 96	0505-LP-001-9880	71076
MASTER-AT-ARMS	JUL 96	0505-LP-001-9690	71550
MESS MANAGEMENT SPECIALIST	JUN 96	0505-LP-001-9590	71485
MINEMAN	JUN 96	0505-LP-001-9250	71280
MISSILE TECHNICIAN	APR 97	0505-LP-003-7250	71285-A
MUSICIAN	JAN 96	0505-LP-001-9680	71525
NAVY COUNSELOR (COUNSELOR)	JUL 96	0505-LP-001-9480	71430
NAVY COUNSELOR (RECRUITER)	JUL 96	0505-LP-001-9490	71431
OPERATIONS SPECIALIST	JUN 96	0505-LP-001-8780	71025
OPTICALMAN	JAN 96	0505-LP-001-8920	71125
PERSONNELMAN	JUN 96	0505-LP-001-9530	71440
PHOTOGRAPHER'S MATE	JAN 96	0505-LP-001-9670	71515
POSTAL CLERK	MAY 97	0505-LP-012-8690	71435-A
QUARTERMASTER	JAN 96	0505-LP-001-8790	71030
RADIOMAN	FEB 96	0505-LP-002-3140	71681
RELIGIOUS PROGRAM SPECIALIST	JUN 96	0505-LP-001-9540	71445
SHIP'S SERVICEMAN	JAN 96	0505-LP-001-9610	71490
SIGNALMAN	JAN 96	0505-LP-001-8770	71005



**PART 1**  
**GENERAL NONRESIDENT TRAINING**

RATING	DATE	STOCK NUMBER	NAVEDTRA
SONAR TECHNICIAN (SUBMARINE)	JUL 97	0505-LP-012-9130	71311-A
SONAR TECHNICIAN (SURFACE)	JUL 96	0505-LP-002-1810	71680
STEELWORKER	JAN 96	0505-LP-001-9430	71375
STOREKEEPER	JAN 96	0505-LP-001-9620	71495
TORPEDOMAN'S MATE	JUL 96	0505-LP-001-9870	71291
UTILITIESMAN	JAN 96	0505-LP-001-9440	71380
YEOMAN	JUN 96	0505-LP-001-9550	71450

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## GENERAL NONRESIDENT TRAINING

### AEROGRAPHER'S MATE 1 & C

NRTC

EDITION: 1995

NAVEDTRA NUMBER: 82853

SN: 0503-LP-480-9400 QR: 15

ASSIGNMENTS: 5 POINTS: 8

ANSWER KEY SN: 0504-LP-777-6400 QR: 1

TRAMAN

EDITION: 1995

NAVEDTRA NUMBER: 12853

SN: 0502-LP-480-9300 QR: 15

Provides Aerographer's Mates with occupational information on the following areas: convergence, divergence, and vorticity; the forecasting of upper air systems; the forecasting of surface systems; the forecasting of weather elements; the forecasting of severe weather features; sea surface forecasting; meteorological products and tactical decision aids; oceanographic products and tactical decision aids; operational oceanography; tropical forecasting; weather radar; meteorological and oceanographic briefs; and administration and training.

### AEROGRAPHER'S MATE SECOND CLASS, VOL 1

NRTC

EDITION: 1988

NAVEDTRA NUMBER: 80370

SN: 0503-LP-213-7900 QR: 10

ASSIGNMENTS: 10 POINTS: 18

ERRATA #1 DATED: 9406

SN: 0503-LP-213-7901 QR: 10

ANSWER KEY SN: 0504-LP-777-0500 QR: 1

TRAMAN

EDITION: 1988

NAVEDTRA NUMBER: 10370

SN: 0502-LP-213-5900 QR: 10

Provides Aerographer's Mate Second Class with occupational information in the following areas: world climate and weather; atmospheric physics; atmospheric circulation; air masses, fronts, and cyclones; surface weather map analysis; upper-air analysis; tropical analysis; and satellite, radar, and LDATS (Lighting Detection and Tracking System) interpretation.

### AEROGRAPHER'S MATE SECOND CLASS, VOL 2

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 80371-A

SN: 0503-LP-218-6200 QR: 10

ASSIGNMENTS: 8 POINTS: 18

ANSWER KEY SN: 0504-LP-777-0600 QR: 1

TRAMAN

EDITION: 1990

NAVEDTRA NUMBER: 10371

SN: 0502-LP-212-9800 QR: 10

Provides information on the following areas: oceanography, oceanography analysis, fundamentals of hydroacoustics, meteorological and oceanographic products and their interpretation, special products and computations, briefing techniques, administration and publications.

### AEROGRAPHER'S MATE THIRD CLASS

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82850

SN: 0503-LP-476-9100 QR: 15

ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-777-2600 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12850

SN: 0502-LP-476-8900 QR: 15

Serves as an introduction to surface weather observations, surface weather observation equipment, surface weather observation codes, upper air observations, bathythermograph observations, miscellaneous observations, satellite imagery acquisition, environmental communications, plotting standards, and computer systems.

## GENERAL NONRESIDENT TRAINING

### AIR TRAFFIC CONTROLLER 1 & C

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 82390

SN: 0503-LP-219-2600 QR: 15

ASSIGNMENTS: 7 POINTS: 11

ANSWER KEY SN: 0504-LP-777-2500 QR: 1

### AIR TRAFFIC CONTROLLER

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: 12390

SN: 0502-LP-219-1100 QR: 15

Emphasizes advanced subject matter coverage of: planning procedures and flight clearance office services; procedures for operating a naval ATC facility; procedures used in normal and emergency air traffic control situations (ashore and afloat); and the organization, administration, and management of an ATC division.

### AIR TRAFFIC CONTROLLER 2

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 72390

SN: 0503-LP-219-2700 QR: 15

ASSIGNMENTS: 12 POINTS: 18

ANSWER KEY SN: 0504-LP-776-9600 QR: 1

### AIR TRAFFIC CONTROLLER

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: 12390

SN: 0502-LP-219-1100 QR: 15

Presents an overview of the AC rating to include: Federal Aviation Regulations; meteorology; weather reports, forecasts, and advisories; military aircraft characteristics and performance; air navigation; aids to air navigation; flight assistance services; airport lighting, markings, and equipment; air traffic communications; control tower operations and equipment; IFR/SVFR control procedures; radar principles, equipment, and operations; and shipboard air control operations.

### AIRCREW SURVIVAL EQUIPMENTMAN 1 & C

NRTC

EDITION: 1985

NAVEDTRA NUMBER: 80330

SN: 0503-LP-500-2300 QR: 5

ASSIGNMENTS: 5 POINTS: 8

ANSWER KEY SN: 0504-LP-776-9700 QR: 1

TRAMAN

EDITION: 1985

NAVEDTRA NUMBER: 10330

SN: 0502-LP-012-2430 QR: 5

Provides information to satisfy the occupational needs of Aircrew Survival Equipmentmen in these areas: sewing machine repair; maintenance of carbon dioxide transfer equipment; oxygen system component test equipment; aircraft-mounted oxygen-breathing regulators; miniature-type oxygen-breathing regulators; aircraft liquid oxygen converters; survival procedures and search and rescue equipment.

### AIRCREW SURVIVAL EQUIPMENTMAN 2

NRTC

EDITION: 1990

NAVEDTRA NUMBER: 80380

SN: 0503-LP-214-1800 QR: 5

ASSIGNMENTS: 10 POINTS: 10

ERRATA #1 DATED: 1993

SN: 0503-LP-214-1801 QR: 5

ANSWER KEY SN: 0504-LP-777-0700 QR: 1

TRAMAN

EDITION: 1990

NAVEDTRA NUMBER: 10380

SN: 0502-LP-214-0200 QR: 5

Provides information for the PR rate. Fundamental subject matter coverage of: personnel parachute familiarization; automatic opening devices; NES-12 personnel parachute system; protective equipment; rescue and survival equipment; inflatable survival equipment, seat survival kit; carbon dioxide; sewing machines; fabrication and manufacture; oxygen test stands and oxygen related components.

## GENERAL NONRESIDENT TRAINING

### AIRMAN

NRTC

EDITION: 1990

NAVEDTRA NUMBER: 82000

SN: 0503-LP-213-0300 QR: 25

ASSIGNMENTS: 11 POINTS: 17

ANSWER KEY SN: 0504-LP-777-1000 QR: 1

### TRAMAN

EDITION: 1990

NAVEDTRA NUMBER: 12000

SN: 0502-LP-213-0200 QR: 25

Presents an overview of naval aviation to the new Navy person and includes subject matter coverage of: mission and history of naval aviation; organization of naval aviation; principles of flight; aircraft basic construction; aircraft hardware; aircraft power plants; aircraft avionics; aircraft ordnance; support equipment and line operations; aircrew survival equipment; and crash rescue, fire fighting, and safety.

### AMMUNITION/EXPLOSIVES HANDLING ASHORE

NRTC

EDITION: 1995

NAVEDTRA NUMBER: 13072-A

SN: 0503-LP-481-9700 QR: 5

ASSIGNMENTS: 13 POINTS: 20

ANSWER KEY SN: 0504-LP-777-8000 QR: 1

Covers rules and regulations that apply to handling ammunition and explosives according to NAVSEA OP 5.

Special Information: The text for this course, *Ammunition and Explosives Ashore*, NAVSEA OP 5, VOLUME 1, FIFTH REVISION, is NOT supplied by NETPDTC and must be obtained locally.

### AVIATION WARFARE SYSTEMS OPERATOR 1 & C

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82810

SN: 0503-LP-477-2600 QR: 5

ASSIGNMENTS: 5 POINTS: 8

ANSWER KEY SN: 0504-LP-775-1200 QR: 1

### TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12810

SN: 0502-LP-477-2400 QR: 5

Covers information on aircrew administration and training; aviation safety; operations and exercises; and mission support procedures. It replaces two older AW 1&C modules in their entirety. The information is designed to help the AW1 and AWC perform the daily administrative duties involved in the AW division of any ASW squadron.

Special Information: **WARNING!** These products are classified CONFIDENTIAL.

### AVIATION ASW OPERATOR 3 & 2, AIRCREW DUTIES

NRTC

EDITION: 1986

NAVEDTRA NUMBER: 060-01-45-86

SN: 0507-LP-060-0105 QR: 15

ASSIGNMENTS: 2 POINTS: 3

ERRATA #2 DATED: 1991

SN: 0507-LP-060-0106 QR: 15

ANSWER KEY SN: 0504-LP-774-7600 QR: 1

### AVIATION ASW OPERATOR 3 & 2, MODULE 1--AIRCREW DUTIES

TRAMAN

EDITION: 1986

NAVEDTRA NUMBER: A60-01-45-86

SN: 0507-LP-060-0100 QR: 15

Covers the basic information needed for the AWA/H/N 3 and 2 to perform flight crew duties. The subjects covered include security, communications, recognition, ASW stores, SAR, and publications.

## GENERAL NONRESIDENT TRAINING

### AVIATION ASW OPERATOR 3, RADAR AND MAD

NRTC

EDITION: 1988

NAVEDTRA NUMBER: 060-02-44-88

SN: 0507-LP-001-3180 QR: 5

ASSIGNMENTS: 5 POINTS: 5

ANSWER KEY SN: 0504-LP-774-7700 QR: 1

### AVIATION ASW OPERATOR 3, MODULE 2--RADAR AND MAD

TRAMAN

EDITION: 1988

NAVEDTRA NUMBER: A60-02-44-88

SN: 0507-LP-001-3170 QR: 5

Covers radar principles, radar navigation, radar tactics, IFF/SIF, magnetic theory, MAD equipment, operations, and MAD tactics for personnel in the AW rating.

Special Information: **WARNING!** These products are classified CONFIDENTIAL.

### AVIATION ASW OPERATOR 3 & 2, ESM AND IR

NRTC

EDITION: 1990

NAVEDTRA NUMBER: 060-03-45-90

SN: 0507-LP-212-3300 QR: 5

ASSIGNMENTS: 7 POINTS: 8

ANSWER KEY SN: 0504-LP-774-7800 QR: 1

### AVIATION ASW OPERATOR 3 & 2, MODULE 3--ESM AND IR

TRAMAN

EDITION: 1990

NAVEDTRA NUMBER: A60-03-45-90

SN: 0507-LP-212-3200 QR: 5

Covers introduction to electronic warfare, fundamentals of radar, emitter characteristics, threat emitters and weapons systems, electronic warfare publications, airborne ASW ESM systems, ESM tactics and contact reporting procedures, introduction to infrared, infrared ASW systems, and infrared tactics. These subject areas are designed to aid nonacoustic antisubmarine operators in developing their skills.

Special Information: **WARNING!** These products are classified SECRET.

### AVIATION ASW OPERATOR 3 & 2, FUNDAMENTALS OF ACOUSTIC ASW

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 060-04-45-92

SN: 0507-LP-215-5600 QR: 5

ASSIGNMENTS: 7 POINTS: 11

ANSWER KEY SN: 0504-LP-774-7900 QR: 1

### AVIATION ASW OPERATOR 3 & 2, MODULE 4--FUNDAMENTALS OF ACOUSTIC ASW

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: A60-04-45-92

SN: 0507-LP-215-4900 QR: 5

Provides information on the physics of sound, sound travel, environmental prediction systems, acoustic systems, and acoustic tactics.

Special Information: **WARNING!** These products are classified SECRET/WNINTEL/NOFORN.

### AVIATION BOATSWAIN'S MATE E 1 & C

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82362

SN: 0503-LP-477-6100 QR: 20

ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-777-2100 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12362

SN: 0502-LP-477-5900 QR: 20

Provides information in the following areas: launch and recovery equipment administration and training; quality assurance administration; maintenance planning; launch and recovery equipment troubleshooting; special tests; maintenance inspections; catapult systems and equipment overhaul, and recovery equipment overhaul procedures.

## GENERAL NONRESIDENT TRAINING

### AVIATION BOATSWAIN'S MATE E 3 & 2

NRTC

EDITION: 1995

NAVEDTRA NUMBER: 82360-A

SN: 0503-LP-480-5600 QR: 15

ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-777-4900 QR: 1

TRAMAN

EDITION: 1995

NAVEDTRA NUMBER: 12360-A

SN: 0502-LP-480-5500 QR: 15

Provides the Aviation Boatswain's Mate E with information on the duties and responsibilities of ABE personnel in launching and recovering aircraft; maintenance tools and equipment; description, operation, and maintenance of MK 7 Mod 2 and 3 arresting gear; general procedures involved in the preparation, operation, and maintenance of various types of emergency recovery equipment afloat; description, operation, maintenance, and inspection of steam catapults; functions and operation of catapult associated equipment.

### AVIATION BOATSWAIN'S MATE F 1 & C

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82364

SN: 0503-LP-477-2900 QR: 15

ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-777-2200 QR: 1

### AVIATION BOATSWAIN'S MATE F

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12364

SN: 0502-LP-477-2700 QR: 15

Contains information on afloat and ashore fuels division organization, general maintenance equipment, quality surveillance, JP-5 afloat below deck systems and operations, JP-5 afloat flight deck systems and operations, afloat lube oil and MOGAS systems and operations, ashore systems and operations, and administration.

### AVIATION BOATSWAIN'S MATE F 3 & 2

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 72364

SN: 0503-LP-477-2800 QR: 15

ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-776-9500 QR: 1

### AVIATION BOATSWAIN'S MATE F

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12364

SN: 0502-LP-477-2700 QR: 15

Serves as an introduction to afloat and ashore fuels division organization, general maintenance equipment, quality surveillance, JP-5 afloat below deck systems and operations, JP-5 afloat flight deck systems and operations, afloat lube oil and MOGAS systems and operations, ashore systems and operations, and administration.

### AVIATION BOATSWAIN'S MATE H 1 & C

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82370

SN: 0503-LP-476-5600 QR: 15

ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-777-2400 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12370

SN: 0502-LP-476-5400 QR: 15

Provides information on the following subjects: characteristics of the amphibious assault ship crash crane; hoisting systems; slings; aircraft-handling personnel duties; organization of aircraft salvage operations; aircraft rescue procedures; salvage planning; quality assurance; administrative reports; and emergency arresting gear maintenance.

## GENERAL NONRESIDENT TRAINING

### AVIATION BOATSWAIN'S MATE H 3 & 2

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 82368

SN: 0503-LP-479-1100 QR: 15

ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-777-2300 QR: 1

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12368

SN: 0502-LP-479-1000 QR: 15

Provides information on: the ABH division organization afloat; tools, equipment, general maintenance, and supply procedure, aircraft handling, support, and crash and salvage equipment, aircraft handling aboard air-capable ships and on shore stations; fire fighting and damage crashes on shore stations; and shore base emergency gear and related equipment.

### AVIATION ELECTRICIAN'S MATE 1

NRTC

EDITION: 1988

NAVEDTRA NUMBER: 80366

SN: 0503-LP-217-8900 QR: 15

ASSIGNMENTS: 5 POINTS: 12

ANSWER KEY SN: 0504-LP-777-0400 QR: 1

TRAMAN

EDITION: 1988

NAVEDTRA NUMBER: 10366

SN: 0502-LP-217-7400 QR: 15

Provides information to satisfy the occupational needs of Aviation Electrician's Mate First Class in the following areas: analog computation, digital computers, inertial navigation, air data computer, and automatic flight control and stabilization systems.

### AVIATION ELECTRICIAN'S MATE 3 & 2

NRTC

EDITION: 1991

NAVEDTRA NUMBER: 80348-A

SN: 0503-LP-213-5800 QR: 15

ASSIGNMENTS: 10 POINTS: 12

ANSWER KEY SN: 0504-LP-776-9900 QR: 1

TRAMAN

EDITION: 1991

NAVEDTRA NUMBER: 10348-G

SN: 0502-LP-213-5700 QR: 15

Provides minimum occupation information by answering items about the following areas: basic physics, electrical maintenance and troubleshooting, power generation and control systems, aircraft power plant electrical systems, aircraft instruments, compass and inertial navigation systems, and automatic flight control and stabilization systems.

### AVIATION ELECTRONICS TECHNICIAN 1 (ORGANIZATIONAL)

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82331

SN: 0503-LP-477-0800 QR: 20

ASSIGNMENTS: 10 POINTS: 15

ANSWER KEY SN: 0504-LP-777-1700 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12331

SN: 0502-LP-477-0700 QR: 20

Provides information on communications, navigation, radar, antisubmarine warfare, indicators, infrared, weapons systems, computers, automatic carrier landing system, and the electrostatic discharge program.



## GENERAL NONRESIDENT TRAINING

### AVIATION ELECTRONICS TECHNICIAN 3

NRTC

EDITION: 1991

NAVEDTRA NUMBER: 82329

SN: 0503-LP-214-7700 QR: 25

ASSIGNMENTS: 9 POINTS: 12

ANSWER KEY SN: 0504-LP-777-1500 QR: 1

TRAMAN

EDITION: 1991

NAVEDTRA NUMBER: 12329

SN: 0502-LP-214-7600 QR: 25

Provides information on the following subject matter: physics; infrared, lasers, and fiber optics; analog fundamentals; digital computers; aviation systems fundamentals and support equipment; avionics maintenance; avionics drawings, schematics, handtools, and materials; test equipment; and safety and security.

### AVIATION ELECTRONICS TECHNICIAN AT2(I)

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 82334

SN: 0503-LP-214-5600 QR: 25

ASSIGNMENTS: 10 POINTS: 15

ERRATA #1 DATED: 1992

SN: 0503-LP-214-5601 QR: 25

ANSWER KEY SN: 0504-LP-777-1800 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: 12334

SN: 0502-LP-214-5400 QR: 25

Provides information on servo systems, logic devices, communications, navigation systems, antisubmarine warfare (ASW), radar circuits, optic and infrared systems, television, computers, and programming, waveform interpretation, and automatic test equipment.

### AVIATION MACHINIST'S MATE 3 & 2

NRTC

EDITION: 1991

NAVEDTRA NUMBER: 82300

SN: 0503-LP-214-6300 QR: 15

ASSIGNMENTS: 11 POINTS: 17

ANSWER KEY SN: 0504-LP-777-1100 QR: 1

TRAMAN

EDITION: 1991

NAVEDTRA NUMBER: 12300

SN: 0502-LP-214-6100 QR: 15

Provides sufficient basic information to satisfy the occupational needs of the aviation machinist's mate in the following areas: jet engine theory and design; tools and hardware; aviation support equipment; jet aircraft fuel and fuel systems; jet aircraft engine lubrication systems; engine and airframe related systems; helicopters and turboshaft power plants; turboprop engines and propellers; power plant troubleshooting; and power plant inspection, repair, and testing.

# GENERAL NONRESIDENT TRAINING

## AVIATION MAINTENANCE ADMINISTRATIONMAN 3 & 2

NRTC

EDITION: 1991

NAVEDTRA NUMBER: 82324

SN: 0503-LP-214-7800 QR: 5

ASSIGNMENTS: 7 POINTS: 12

ERRATA #1 DATED: 1993

SN: 0503-LP-214-7801 QR: 5

ANSWER KEY SN: 0504-LP-777-1400 QR: 1

TRAMAN

EDITION: 1991

NAVEDTRA NUMBER: 12324

SN: 0502-LP-214-6900 QR: 5

Provides information on the following subject areas: the Naval Aviation Maintenance Program (NAMP); maintenance administration; quality assurance/analysis; technical publications library; maintenance/production control; aircraft logs, records, and reports; and aeronautical equipment logs, records, and reports.

## AVIATION MAINTENANCE RATINGS FUNDAMENTALS

TRAMAN/NRTC

EDITION: 1995

NAVEDTRA NUMBER: 12010-B

SN: 0502-LP-480-2400 QR: 25

ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-777-4700 QR: 1

Provides information on the following subject matter: maintenance administration, publications, aviation supply, corrosion control, line operations, and special programs as this subject matter applies to the occupational standards of nine aviation ratings, AD, AE, AME, AMH, AME, AO, AS, AT, and PR.

## AVIATION ORDNANCEMAN 1

NRTC

EDITION: 1996

NAVEDTRA NUMBER: 82309

SN: 0503-LP-481-8800 QR: 10

ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-777-7600 QR: 1

## AVIATION ORDNANCEMAN 3, 2 & 1

TRAMAN

EDITION: 1996

NAVEDTRA NUMBER: 12309

SN: 0502-LP-481-8600 QR: 30

Provides information to satisfy the occupational needs of the Aviation Ordnanceman in the following areas: bombs, fuzes, and associated components; aircraft rockets and rocket launchers; air-launched guided missiles and guided missile launchers; pyrotechnics, air-laid mines and torpedoes; M61A1 gun installation; ammunition loading; targets and associated equipment; ammunition handling equipment; suspension, arming, and releasing equipment; ammunition storage and handling afloat; ammunition storage and handling ashore; weapons assembly; aircraft loading and unloading procedures; aircraft weapons systems; aircraft weapons systems test equipment; and ammunition administration ashore and afloat.

## GENERAL NONRESIDENT TRAINING

### AVIATION ORDNANCEMAN 3 & 2

NRTC

EDITION: 1996

NAVEDTRA NUMBER: 72309

SN: 0503-LP-481-8700 QR: 20

ASSIGNMENTS: 11 POINTS: 17

ANSWER KEY SN: 0504-LP-777-7500 QR: 1

### AVIATION ORDNANCEMAN 3, 2 & 1

TRAMAN

EDITION: 1996

NAVEDTRA NUMBER: 12309

SN: 0502-LP-481-8600 QR: 30

Provides information to satisfy the occupational needs of the Aviation Ordnanceman in the following areas: bombs, fuzes, and associated components; aircraft rockets and rocket launchers; air-launched guided missiles and guided missile launchers; pyrotechnics, air-laid mines and torpedoes; M61A1 gun installation; ammunition loading; targets and associated equipment; ammunition handling equipment; suspension, arming, and releasing equipment; ammunition storage and handling afloat; ammunition storage and handling ashore; weapons assembly; aircraft loading and unloading procedures; aircraft weapons systems; aircraft weapons systems test equipment; and ammunition administration ashore and afloat.

### AVIATION STOREKEEPER 1 & C

NRTC

EDITION: 1996

NAVEDTRA NUMBER: 82657

SN: 0503-LP-483-3600 QR: 10

ASSIGNMENTS: 7 POINTS: 11

ANSWER KEY SN: 0504-LP-777-9400 QR: 1

TRAMAN

EDITION: 1996

NAVEDTRA NUMBER: 12657

SN: 0502-LP-483-3400 QR: 10

Consists of information on the knowledge, skills, and responsibilities required in the Aviation Storekeeper rating. The following subject matter is listed in detail: administration and customer service; storage and material handling; material receipts and expenditures; aviation material management; inventory management; financial management; and automated supply support.

### AVIATION STOREKEEPER 2

NRTC

EDITION: 1991

NAVEDTRA NUMBER: 82655

SN: 0503-LP-216-2800 QR: 15

ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-776-2800 QR: 1

TRAMAN

EDITION: 1991

NAVEDTRA NUMBER: 12655

SN: 0502-LP-216-2700 QR: 15

Provides knowledge of procedures that are performed by naval personnel in the area of supply. It includes a description of the administration of supply functions, publications used in performing supply functions, financial control, storage of supplies, stock control, purchasing of supplies, material control procedures, supply support, and special programs having aviation storekeeper input.

### AVIATION STOREKEEPER 3

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 82654

SN: 0503-LP-218-7300 QR: 15

ASSIGNMENTS: 10 POINTS: 15

ANSWER KEY SN: 0504-LP-776-2700 QR: 1

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12654

SN: 0502-LP-218-7200 QR: 15

Provides the basic information needed to satisfy the occupational needs of the AK3 in the following areas: organization; administration and customer service; material identification; material procurement; material receipt; material custody, stowage, equipment, and safety; material expenditure and movement; material control; supply support; and stock control.

## GENERAL NONRESIDENT TRAINING

### AVIATION STRUCTURAL MECHANIC E 1 & C

NRTC

EDITION: 1991

NAVEDTRA NUMBER: 82318

SN: 0503-LP-214-4100 QR: 10

ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-777-1300 QR: 1

TRAMAN

EDITION: 1991

NAVEDTRA NUMBER: 12318

SN: 0502-LP-214-3900 QR: 10

Provides information on the following subject matter: management, safety, and supervision; electrically operated canopy systems; utility systems; air-conditioning systems; and the Navy aircrew common ejection seat (NACES).

### AVIATION STRUCTURAL MECHANIC E 2

NRTC

EDITION: 1989

NAVEDTRA NUMBER: 80401

SN: 0503-LP-213-8300 QR: 5

ASSIGNMENTS: 9 POINTS: 15

ERRATA #2 DATED: 1993

SN: 0503-LP-213-8302 QR: 5

ANSWER KEY SN: 0504-LP-777-0900 QR: 1

TRAMAN

EDITION: 1989

NAVEDTRA NUMBER: 10401

SN: 0502-LP-213-6300 QR: 5

Provides basic information concerning utility systems, canopy systems, pressurization and air-conditioning systems, oxygen systems, oxygen support equipment, and ejection seat systems.

### AVIATION STRUCTURAL MECHANIC (H & S) 3 & 2

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82338

SN: 0503-LP-477-4100 QR: 25

ASSIGNMENTS: 14 POINTS: 21

ANSWER KEY SN: 0504-LP-777-1900 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12338

SN: 0502-LP-477-3900 QR: 25

Provides information on aircraft construction and materials, aircraft hardware and seals, general aircraft maintenance, hydraulic contamination and related servicing, test equipment, hose fabrication and maintenance, tubing fabrication and maintenance, basic power systems, fixed-wing flight control systems, rotary-wing flight control systems, aircraft wheels, tires and tubes, landing gear, brakes, and hydraulic utility systems, aircraft metallic repair, aircraft nonmetallic repair, and nondestructive inspections, welding, and heat treatment.

### AVIATION SUPPORT EQUIPMENT TECHNICIAN 1

NRTC

EDITION: 1990

NAVEDTRA NUMBER: 80358

SN: 0503-LP-214-5100 QR: 5

ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-777-0300 QR: 1

TRAMAN

EDITION: 1990

NAVEDTRA NUMBER: 10358

SN: 0502-LP-214-3400 QR: 5

Emphasizes the organizational and intermediate level maintenance and repair of aviation support equipment; aviation supply system; work center supervision and administration; reciprocating internal combustion engine, chassis electrical, and transmission/drive train analysis and repair; electrical power generating systems and hydraulic and pneumatic system maintenance; gas turbine compressor (engines); gas turbine compressor (engines) repairs; air-conditioning and refrigeration systems; gaseous oxygen and nitrogen systems; shipboard aircraft emergency equipment; and shipboard planned maintenance system fundamentals.

# GENERAL NONRESIDENT TRAINING

## AVIATION SUPPORT EQUIPMENT TECHNICIAN 2

NRTC

EDITION: 1989

NAVEDTRA NUMBER: 80357

SN: 0503-LP-220-3600 QR: 5

ASSIGNMENTS: 9 POINTS: 9

ANSWER KEY SN: 0504-LP-777-0200 QR: 1

TRAMAN

EDITION: 1989

NAVEDTRA NUMBER: 10357

SN: 0502-LP-219-9300 QR: 5

Provides fundamental subject matter coverage of: support equipment; servicing and maintenance; chassis and brake systems; power train; internal combustion engines; diesel engines; automotive electrical systems; power generating systems; air-conditioners; gas turbine compressors; oxygen and nitrogen equipment.

## AVIATION SUPPORT EQUIPMENT TECHNICIAN 3

NRTC

EDITION: 1987

NAVEDTRA NUMBER: 80356

SN: 0503-LP-500-2560 QR: 5

ASSIGNMENTS: 6 POINTS: 12

ERRATA #1 DATED: 1993

SN: 0503-LP-500-2561 QR: 5

ANSWER KEY SN: 0504-LP-777-0100 QR: 1

TRAMAN

EDITION: 1987

NAVEDTRA NUMBER: 10356

SN: 0502-LP-051-7730 QR: 5

Provides basic information to beginners in the AS rate to include fundamental SE shop organization and shop procedures. Also includes the rate structure and a short history of the AS rate. Fundamental subject matter coverage of: Support Equipment; Servicing and Maintenance; Tools and Test Equipment; Automotive Accessories; Power Generating Equipment and Systems; Air-conditioning Systems; Supply; Naval Aviation Maintenance Program; Materials and Hardware; and Support Equipment Training.

## BASIC MACHINES

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 82199

SN: 0503-LP-478-6800 QR: 15

ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-775-7200 QR: 1

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12199

SN: 0502-LP-478-6700 QR: 15

Covers the simplest machines—levers; block and tackle; wheel and axle; inclined plane and wedges; screw and gears. Internal combustion engines and power trains have cursory coverage.

## BASIC MUSIC

SP EDITION: 1980

NAVEDTRA NUMBER: 10244

SN: 0502-LP-051-2200 QR: 5

Covers basic principles of music and musical instruments.

## BASIC MUSIC (NAVY)

SP EDITION: 1991

NAVEDTRA NUMBER: 12013

SN: 0502-LP-215-5900 QR: 5

Contains information on media, form, and conducting as it relates to Navy musician. Supplement to BASIC MUSIC, NAVEDTRA 10244;

# GENERAL NONRESIDENT TRAINING

## BLUEPRINT READING AND SKETCHING

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 82014

SN: 0503-LP-479-3700 QR: 10

ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-776-6300 QR: 1

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12014

SN: 0502-LP-479-3600 QR: 10

Covers blueprint reading and drawing with examples from several fields of work where blueprints are normally used.

## BOATSWAIN'S MATE 1 & C

NRTC

EDITION: 1996

NAVEDTRA NUMBER: 82100

SN: 0503-LP-482-1100 QR: 20

ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-777-8200 QR: 1

## BOATSWAIN'S MATE

TRAMAN

EDITION: 1996

NAVEDTRA NUMBER: 12100

SN: 0502-LP-482-0900 QR: 20

Provides information in the following areas: honors and ceremonies; rigging; cargo handling and stowage; replenishment; navigation; ship handling; towing and salvage; mines and countermeasures; damage control organization and painting; ground tackle and towing; boats and davits; boat handling; gunnery; painting and amphibious operations.

## BOATSWAIN'S MATE 3 & 2

NRTC

EDITION: 1996

NAVEDTRA NUMBER: 72100

SN: 0503-LP-482-1200 QR: 20

ASSIGNMENTS: 10 POINTS: 16

ANSWER KEY SN: 0504-LP-777-8300 QR: 1

## BOATSWAIN'S MATE

TRAMAN

EDITION: 1996

NAVEDTRA NUMBER: 12100

SN: 0502-LP-482-0900 QR: 20

Provides information in the following areas: honors and ceremonies; rigging; cargo handling and stowage; replenishment; navigation; ship handling; towing and salvage; mines and countermeasures; damage control organization and painting; ground tackle and towing; boats and davits; boat handling; gunnery; painting and amphibious operations.

## BOILER TECHNICIAN 2

NRTC

EDITION: 1991

NAVEDTRA NUMBER: 72140

SN: 0503-LP-216-8200 QR: 20

ASSIGNMENTS: 5 POINTS: 10

ANSWER KEY SN: 0504-LP-775-4400 QR: 1

## BOILER TECHNICIAN 3 & 2

TRAMAN

EDITION: 1991

NAVEDTRA NUMBER: 12140

SN: 0502-LP-215-2700 QR: 20

Provides information which will serve as an aid to performing your duties in the following areas: administration and management; steam engineering; the engineering plant; boiler fittings and instruments; automatic boiler controls; propulsion boiler operation; boiler water/feedwater test and treatment; auxiliary machinery; and valves, pipe fittings, and piping.

# GENERAL NONRESIDENT TRAINING

## BOILER TECHNICIAN 3

NRTC

EDITION: 1991

NAVEDTRA NUMBER: 82140

SN: 0503-LP-215-2800 QR: 20

ASSIGNMENTS: 5 POINTS: 10

ERRATA #2 DATED: 1993

SN: 0503-LP-215-2802 QR: 20

ANSWER KEY SN: 0504-LP-775-6100 QR: 1

## BOILER TECHNICIAN 3 & 2

TRAMAN

EDITION: 1991

NAVEDTRA NUMBER: 12140

SN: 0502-LP-215-2700 QR: 20

Provides information which will serve as an aid to performing your duties in the following areas; administration and management; steam engineering; the engineering plant; boiler fittings and instruments; automatic boiler controls; propulsion boiler operation; boiler water/feedwater test and treatment; auxiliary machinery; and valves, pipe fittings, and piping.

## BUILDER 1

NRTC

EDITION: 1989

NAVEDTRA NUMBER: 80649

SN: 0503-LP-215-3900 QR: 8

ASSIGNMENTS: 6 POINTS: 10

ANSWER KEY SN: 0504-LP-776-5600 QR: 1

TRAMAN

EDITION: 1989

NAVEDTRA NUMBER: 10649-G1

SN: 0502-LP-218-3700 QR: 8

Contains information on the following areas: administration; supervision; building construction and shop organization; facilities maintenance inspections; advance base planning, embarkation, and product turnover; and planning, estimating, and scheduling.

## BUILDER 3 & 2, VOL 1

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82520

SN: 0503-LP-220-4300 QR: 15

ASSIGNMENTS: 8 POINTS: 12

ANSWER KEY SN: 0504-LP-776-7800 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12520

SN: 0502-LP-220-6200 QR: 15

Contains information on the following topics: construction administration and safety; drawings and specifications; woodworking tools, materials and methods of woodworking; fiber line, wire rope, and scaffolding; leveling and grading; concrete; placing concrete; masonry; and planning, estimating, and scheduling.

## GENERAL NONRESIDENT TRAINING

### **BUILDER 3 & 2, VOL 2**

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 82521

SN: 0503-LP-478-6600 QR: 15

ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-776-7900 QR: 1

### **TRAMAN**

EDITION: 1994

NAVEDTRA NUMBER: 12521

SN: 0502-LP-478-6400 QR: 15

Contains information on floor and wall construction; roof framing; exterior and interior finishing; plastering, stuccoing, and ceramic tile; paint and preservatives; advanced base field structures; and heavy construction.

### **CATALOG OF NONRESIDENT TRAINING COURSES**

SP

EDITION: October 1997

NAVEDTRA NUMBER: 12061

SN: 0502-LP-013-0190 QR: 5

Lists the latest available nonresident training materials.

### **CHIEF PETTY OFFICER INDOCTRINATION COURSE, INSTRUCTOR'S GUIDE**

SP

EDITION: 1993

NAVEDTRA NUMBER: 38203

SN: 0502-LP-220-7700 QR: 5

Prepares newly selected chief petty officers for the transition from petty officer to chief petty officer; designed as part of an on board training package. The course provides new chief petty officers with a firm understanding of the authority, responsibility, and accountability inherent in their new roles. The guide for the instructor includes all the material covered in the Student's Journal in outline form and suggested instructor activities.

### **CHIEF PETTY OFFICER INDOCTRINATION COURSE, STUDENT'S JOURNAL**

SP

EDITION: 1993

NAVEDTRA NUMBER: 38202

SN: 0502-LP-220-7600 QR: 25

Prepares newly selected chief petty officers for the transition from petty officer to chief petty officer; designed as part of an on board training package. The course provides new chief petty officers with a firm understanding of the authority, responsibility, and accountability inherent in their new roles. The Student's Journal is a narrative text, in modified outline form, which includes the topical outline, a course overview, key points, supplemental readings, and references. The journal covers nine subject areas: Professionalism; Communication Skills; Management Skills; Leadership Skills; Command Climate; Counseling; CPO Quarters and Messes; Navy Programs and Policies; and CPO Uniform History, Requirements, and Regulations.



# GENERAL NONRESIDENT TRAINING

## COMMAND MASTER CHIEF COURSE INSTRUCTOR'S GUIDE

SP

EDITION: 1992

NAVEDTRA NUMBER: 38205-A

SN: 0502-LP-220-8700 QR: 5

This special publication is part of an onboard training package and is designed to be used by the instructors conducting the 4-day Command Master Chief seminar. The instructor's guide covers 13 subject areas: Introduction to the command master chief program; Navy ceremonies and protocols; Navy programs and policies; career counseling; Navy leader development program; assistance programs and policies; legal matters; public affairs; enlisted performance evaluation system; command awards and recognition; command finance; uniforms; and the Naval Reserve.

## COMMAND MASTER CHIEF COURSE STUDENT'S SOURCE BOOK

SP

EDITION: 1992

NAVEDTRA NUMBER: 38204-A

SN: 0502-LP-220-7800 QR: 150

This special publication is part of an onboard training package for newly assigned command master chiefs, command senior chiefs, and command chiefs. It is designed to be used by those personnel while attending the 4-day Command Master Chief seminar. The instructor's guide covers 13 subject areas: Introduction to the command master chief program; Navy ceremonies and protocols; Navy programs and policies; career counseling; Navy leader development program; assistance programs and policies; legal matters; public affairs; enlisted performance evaluation system; command awards and recognition; command finance; uniforms; and the Naval Reserve.

## COMMUNICATIONS SECURITY MATERIAL SYSTEM CUSTODIAN

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 13075-A

SN: 0503-LP-478-3400 QR: 10

ASSIGNMENTS: 3 POINTS: 5

ERRATA #2 DATED: 9501

SN: 0503-LP-478-3402 QR: 10

ANSWER KEY SN: 0504-LP-774-8500 QR: 1

Covers Communications Security (COMSEC) Material Control System (CMCS); Introduction to COMSEC Material; CMS Education, Training, and Inspections; Establishing a CMS Account and CMS Responsibilities; Safeguarding COMSEC Material and Facilities; Maintaining COMSEC Material Allowance; Control and Documentation Requirements for COMSEC Material; Disestablishment of a CMS Account; COMSEC Incident Reporting; Practices Dangerous to Security (PDS).

Special Information: The text for this course, *Communications Security Material System, CMS 1*, is NOT supplied and must be obtained by the student.

## CONSTRUCTION ELECTRICIAN 1

NRTC

EDITION: 1990

NAVEDTRA NUMBER: 82525

SN: 0503-LP-213-2200 QR: 5

ASSIGNMENTS: 6 POINTS: 10

ANSWER KEY SN: 0504-LP-776-8100 QR: 1

TRAMAN

EDITION: 1990

NAVEDTRA NUMBER: 12525

SN: 0502-LP-213-2100 QR: 5

Describes safe working practices and conditions in the use and care of test equipment and meters; procedures for installing, maintaining, and troubleshooting mobile electrical power (MEP) generators; procedures for installing, operating, maintaining, and repairing power distribution systems and lighting systems; procedures for installing, maintaining, and troubleshooting alarm systems; methods of calculating the load requirements of the various electrical systems; and the rigging and erecting of various hoisting systems.

## GENERAL NONRESIDENT TRAINING

### CONSTRUCTION ELECTRICIAN 3

NRTC

EDITION: 1991

NAVEDTRA NUMBER: 82523

SN: 0503-LP-214-8800 QR: 5

ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-776-8000 QR: 1

TRAMAN

EDITION: 1991

NAVEDTRA NUMBER: 12523

SN: 0502-LP-214-8700 QR: 5

Contains information on the following topics: drawing and specifications, test equipment, power generators, power distribution, interior wiring, electrical appliances and equipment, and communications.

### CONSTRUCTION ELECTRICIAN 3 & 2

NRTC

EDITION: 1988

NAVEDTRA NUMBER: 80636

SN: 0503-LP-217-0900 QR: 5

ASSIGNMENTS: 6 POINTS: 12

ERRATA #2 DATED: 1992

SN: 0503-LP-217-0902 QR: 5

ANSWER KEY SN: 0504-LP-776-5500 QR: 1

TRAMAN

EDITION: 1988

NAVEDTRA NUMBER: 10636-J

SN: 0502-LP-216-9400 QR: 5

Describes safe electrical working practices and conditions; uses of blueprints, diagrams, and schematics; types of test equipment and meters; operation of controls and protective devices; principles and techniques of interior wiring; operation of a central power station; and installation and maintenance of underground and overhead power distribution systems and wire communications systems.

### CONSTRUCTION MECHANIC 3 & 2

TRAMAN/NRTC

EDITION: 1988

NAVEDTRA NUMBER: 10644-G1

SN: 0502-LP-216-5300 QR: 5

ASSIGNMENTS: 12 POINTS: 18

ERRATA #2 DATED: 9409

SN: 0502-LP-216-5302 QR: 5

ANSWER KEY SN: 0504-LP-776-3700 QR: 1

Describes the basic theory, construction, and operating principles of gasoline and diesel engines, fuel and lubricating systems, electrical systems, power trains and suspension systems. Also covered in limited detail are the types of preventive maintenance inspections, and forms used in maintaining cost records.

### CONSTRUCTION MECHANIC ADVANCED

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 82528

SN: 0503-LP-214-9100 QR: 10

ASSIGNMENTS: 11 POINTS: 17

ERRATA #1 DATED: 9409

SN: 0503-LP-214-9101 QR: 10

ANSWER KEY SN: 0504-LP-776-8200 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: 12528

SN: 0502-LP-214-8900 QR: 10

Describes the duties and responsibilities of the construction mechanic in a battalion or Public Works assignment. Their tasks concern procedures for conducting vehicle safety inspections and Battalion Equipment Evaluation Programs; overhauling internal combustion engines; and troubleshooting vehicle electrical systems, fuel systems, and power trains (including automatic transmissions), hydraulic systems, air-conditioning systems, and wheel and track alignment systems.

## GENERAL NONRESIDENT TRAINING

### CTTS, MODULE 23--TIME CONVERSION

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 095-23-00-92

SN: 0507-LP-477-7800 QR: 20

ASSIGNMENTS: 1 POINTS: 2

ANSWER KEY SN: 0504-LP-777-3400 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: A95-23-00-92

SN: 0507-LP-220-8800 QR: 20

Assists enlisted and officer personnel of the United States Navy and Naval Reserve in acquiring the knowledge requisite to the computation of time. It uses two-dimensional charts and expanded narratives to explain both the global division and designation, and the processes and mathematical formulas used in the conversion of time.

### DAMAGE CONTROLMAN 1 & C

NRTC:

EDITION: 1996

NAVEDTRA NUMBER: 82222

SN: 0503-LP-483-3900 QR: 10

ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-777-9600 QR: 1

TRAMAN: 12222

EDITION: 1996

NAVEDTRA NUMBER: 12222

SN: 0502-LP-483-3800 QR: 10

Provides training in the following subject matter areas: advancement and responsibilities; ship supervision; ship repair; damage control diagrams and blueprints; the damaged ship; damage control; and CBR contamination and decontamination.

### DAMAGE CONTROLMAN 3 & 2

NRTC

EDITION: 1986

NAVEDTRA NUMBER: 80572

SN: 0503-LP-500-4720 QR: 25

ASSIGNMENTS: 7 POINTS: 14

ERRATA #2 DATED: 1996

SN: 0503-LP-500-4722 QR: 25

ANSWER KEY SN: 0504-LP-775-5500 QR: 1

TRAMAN

EDITION: 1986

NAVEDTRA NUMBER: 10572

SN: 0502-LP-052-8640 QR: 25

ERRATA #1 DATED: 1991

SN: 0502-LP-052-8641 QR: 25

Provides training on the following subject matter areas: damage control organization and communications; ship compartmentation and watertight integrity; the fundamentals of fire fighting, firefighting equipment and systems; fighting the fire and the repair of battle damage; radiological effects and countermeasures, biological and chemical agents, and CBR defense.

### DATA PROCESSING TECHNICIAN 1 & C

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 82512

SN: 0503-LP-479-4800 QR: 15

ASSIGNMENTS: 5 POINTS: 8

ANSWER KEY SN: 0504-LP-776-7700 QR: 1

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12512

SN: 0502-LP-479-4700 QR: 15

Provides training on the following areas: technical administration, support, and evaluation; production control and scheduling; programming and analysis; database management; networks and communications; and automated information system (AIS) security.

## GENERAL NONRESIDENT TRAINING

### DATA PROCESSING TECHNICIAN 3 & 2

NRTC

EDITION: 1996

NAVEDTRA NUMBER: 82513

SN: 0503-LP-483-0600 QR: 20

ASSIGNMENTS: 8 POINTS: 12

ANSWER KEY SN: 0504-LP-777-9000 QR: 1

TRAMAN

EDITION: 1996

NAVEDTRA NUMBER: 12513

SN: 0502-LP-483-0400 QR: 20

Prepares enlisted personnel for advancement to petty officer third and second class in the Data Processing Technician rating and is based on the DP3 and DP2 Occupational Standards. Topics are data processing and the DP rating, the digital computer and how it works, data and data preparation, number systems, coding systems, storage media, operating a computer system, computer software, computer operating systems, computer output, input/output control functions, magnetic media library functions, ADP security requirements, and microcomputer concepts. It covers supervision of data entry, magnetic media library, and computer operations; scheduling ADP production; and working with microcomputers and end users; data communications; local area networks (LANs); packaged software; system control languages; general data processing and digital computer concepts, as well as information about the rating and the tasks to which a DP3 or DP2 may be assigned.

### DATA SYSTEMS TECHNICIAN TRAINING SERIES, VOL 1, INTRODUCTION TO DATA SYSTEMS AND MAINTENANCE CONCEPTS

NRTC

EDITION: 1991

NAVEDTRA NUMBER: 82501

SN: 0503-LP-215-4600 QR: 15

ASSIGNMENTS: 7 POINTS: 10

ANSWER KEY SN: 0504-LP-776-7100 QR: 1

TRAMAN

EDITION: 1991

NAVEDTRA NUMBER: 12501

SN: 0502-LP-215-4400 QR: 15

Provides information on the following subjects: the DS rating, data systems and support equipment, documentation, test equipment, tools, repair parts/supply, maintenance requirements, and troubleshooting and repair techniques.

### DATA SYSTEMS TECHNICIAN TRAINING SERIES, VOL 2, COMPUTER FUNDAMENTALS AND INTERFACING

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 82502

SN: 0503-LP-219-0300 QR: 15

ASSIGNMENTS: 9 POINTS: 12

ANSWER KEY SN: 0504-LP-776-7200 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: 12502

SN: 0502-LP-219-0200 QR: 15

Provides information on the following subjects: computer fundamentals and operations; computer operator controls and controlling units; components and circuits; central processing units and busses; memories; input/output; interfacing; instructions; and man/machine interfaces.

## GENERAL NONRESIDENT TRAINING

### DATA SYSTEMS TECHNICIAN TRAINING SERIES, VOL 3, DATA STORAGE AND CONVERSION DEVICES NRTC

EDITION: 1994

NAVEDTRA NUMBER: 82503

SN: 0503-LP-478-7900 QR: 15

ASSIGNMENTS: 5 POINTS: 8

ANSWER KEY SN: 0504-LP-776-7300 QR: 1

#### TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12503

SN: 0502-LP-478-7800 QR: 15

Provides information on the following subjects: magnetic tape storage, magnetic disk storage, CD-ROM storage, printers, data conversion devices, and switchboards.

### DATA SYSTEMS TECHNICIAN TRAINING SERIES, VOL 4, DATA DISPLAY SYSTEMS AND DEVICES NRTC

EDITION: 1994

NAVEDTRA NUMBER: 82504

SN: 0503-LP-479-7400 QR: 15

ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-776-7400 QR: 1

#### TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12504

SN: 0502-LP-479-7300 QR: 15

Provides information on the following subjects: basic display devices and systems, personal computer video display and input devices, the Data Display Group AN/UYA-4(V), and the Computer Display Set AN/UYQ-21(V).

### DATA SYSTEMS TECHNICIAN TRAINING SERIES, VOL 5, DIGITAL COMMUNICATIONS NRTC

EDITION: 1996

NAVEDTRA NUMBER: 82505

SN: 0503-LP-481-3400 QR: 25

ASSIGNMENT: 4 POINTS: 8

ANSWER KEY SN: 0504-LP-777-9900

#### TRAMAN

EDITION: 1996

NAVEDTRA NUMBER: 12505

SN: 0502-LP-481-3300

Consists of a description of digital communications techniques, the operation and maintenance of Link-11, Link-4A, Link-16, the C2P system, and a basic introduction to local area networks (LANs).

## GENERAL NONRESIDENT TRAINING

### **DATA SYSTEMS TECHNICIAN TRAINING SERIES, VOL 6, DATA SYSTEMS MAINTENANCE MANAGEMENT**

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 82506

SN: 0503-LP-218-9400 QR: 15

ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-776-7500 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: 12506

SN: 0502-LP-218-9300 QR: 15

Provides information on the following subjects: data systems maintenance organizations and management, maintenance planning and management of digital data systems, and troubleshooting and diagnosing digital data systems.

### **DENTAL ASSISTANT, ADVANCED**

NRTC

EDITION: 1991

NAVEDTRA NUMBER: 82571

SN: 0503-LP-214-2400 QR: 15

ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-776-1900 QR: 1

TRAMAN

EDITION: 1991

NAVEDTRA NUMBER: 12571

SN: 0502-LP-214-2300 QR: 15

Provides a study package for the advanced Dental Technician for advancement in rate E-5 through E-7.

### **DENTAL ASSISTANT, BASIC**

NRTC

EDITION: 1991

NAVEDTRA NUMBER: 82570

SN: 0503-LP-214-2200 QR: 15

ASSIGNMENTS: 11 POINTS: 12

ERRATA #2 DATED: 9402

SN: 0503-LP-214-2202 QR: 15

ANSWER KEY SN: 0504-LP-776-1800 QR: 1

TRAMAN

EDITION: 1991

NAVEDTRA NUMBER: 12570

SN: 0502-LP-214-2100 QR: 15

Builds on the basic dental assisting skills learned at Dental Assistant Basic 'A' School. It will teach new skills required of the basic dental assistant.

### **DISBURSING CLERK 1 & C**

NRTC

EDITION: 1995

NAVEDTRA NUMBER: 82660

SN: 0503-LP-478-1300 QR: 15

ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-777-6700 QR: 1

TRAMAN

EDITION: 1995

NAVEDTRA NUMBER: 12660

SN: 0502-LP-478-1200 QR: 15

Consists of information on the knowledge, skills, and responsibilities required in the Disbursing Clerk rating. The following subject matter is listed in detail: Financial Accountability, Appropriation Accounting; Travel Allowances, U.S. Treasury Checks; Foreign Currency; Public Vouchers; Financial Returns, Pay Entitlements; and Separations, Discharges, and Retirements.

## GENERAL NONRESIDENT TRAINING

### DISBURSING CLERK 3 & 2

NRTC  
EDITION: 1992  
NAVEDTRA NUMBER: 82658  
SN: 0503-LP-218-6900 QR: 15  
ASSIGNMENTS: 10 POINTS: 15

ANSWER KEY SN: 0504-LP-776-2900 QR: 1

### TRAMAN

EDITION: 1992  
NAVEDTRA NUMBER: 12658  
SN: 0502-LP-218-6300 QR: 15

Covers Disbursing Clerk functions; disbursing office; military pay entitlements; military pay deductions; Navy pay procedures; maintenance of leave and earning statement (LES) and personal financial record (PFR); payments; naval reserve disbursing requirements; appropriation accounting; travel and transportation; public vouchers; collections; and reports and returns.

### EAR TRAINING MANUAL FOR MUSICIANS

SP  
EDITION: 1986  
NAVEDTRA NUMBER: 10243  
SN: 0502-LP-051-2150 QR: 5

Covers the divided beat in simple time and compound time; major triad and minor triad in numeral notation and staff notation; the subdivided beat in simple time and compound time; major and minor scale activities; syncopation involving beat and divided beat; diatonic and nondiatonic melodies; time beating patterns; counting system; and performance procedures and guidelines.

### EDUCATIONAL SERVICES OFFICER

NRTC  
EDITION: 1992  
NAVEDTRA NUMBER: 82015  
SN: 0503-LP-479-0400 QR: 5  
ASSIGNMENTS: 4 POINTS: 6

ERRATA #1 DATED: 9305  
SN: 0503-LP-479-0401 QR: 5

ANSWER KEY SN: 0504-LP-776-1700 QR: 1

### TRAMAN

EDITION: 1992  
NAVEDTRA NUMBER: 12015  
SN: 0502-LP-219-9900 QR: 5

Assists Navy personnel preparing for duties as an educational services officer. The subject matter includes the following information: the role and duties of the educational services officer; the various educational programs available to officer and enlisted personnel; the steps that must be taken when preparing for advancement; how the Navy advancement system works; and the procedures that must be followed when Navy advancement examinations are administered.

## GENERAL NONRESIDENT TRAINING

### ELECTRICIAN'S MATE 1 & C

NRTC

EDITION: 1996

NAVEDTRA NUMBER: 82164

SN: 0503-LP-001-8390 QR: 15

ASSIGNMENTS: 12 POINTS: 18

ERRATA #1 DATED: 9612

SN: 0503-LP-001-8391 QR: 15

ANSWER KEY SN: 0504-LP-778-0400

### ELECTRICIAN'S MATE

TRAMAN

EDITION: 1996

NAVEDTRA NUMBER: 12164

SN: 0502-LP-001-8380 QR: 15

ERRATA #1 DATED: 9612

SN: 0502-LP-001-8381 QR: 15

Provides information in the following areas: rating information safety practices, and administration; electrical installations, electrical power distribution systems; shipboard lighting, electrical auxiliaries, motor controllers, maintenance and repair of rotating electrical machinery; voltage and frequency regulation; electrohydraulic load-sensing speed governors; degaussing; cathodic protection; visual landing aids; engineering plant operations, maintenance, and inspections, and engineering casualty control.

### ELECTRICIAN'S MATE 3 & 2

NRTC

EDITION: 1996

NAVEDTRA NUMBER: 72164

SN: 0503-LP-001-8420 QR: 15

ASSIGNMENTS: 10 POINTS: 15

ERRATA #1 DATED: 9612

SN: 0503-LP-001-8421 QR: 15

ANSWER KEY SN: 0504-LP-778-0300 QR: 1

### ELECTRICIAN'S MATE

TRAMAN

EDITION: 1996

NAVEDTRA NUMBER: 12164

SN: 0502-LP-001-8380 QR: 15

ERRATA #1 DATED: 9612

SN: 0502-LP-001-8381 QR: 15

Provides information in the following areas: rating information safety practices, and administration; electrical installations, electrical power distribution systems; shipboard lighting, electrical auxiliaries, motor controllers, maintenance and repair of rotating electrical machinery; voltage and frequency regulation; electrohydraulic load-sensing speed governors; degaussing; cathodic protection; visual landing aids; engineering plant operations, maintenance, and inspections, and engineering casualty control.

### ELECTRONICS TECHNICIAN SUPERVISOR (ETC)

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 82410

SN: 0503-LP-216-8300 QR: 15

ASSIGNMENTS: 5 POINTS: 8

ANSWER KEY SN: 0504-LP-775-7700 QR: 1

### ELECTRONICS TECHNICIAN SUPERVISOR

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: 12410

SN: 0502-LP-216-7900 QR: 15

Provides information on ET responsibilities; organization and administration of the electronics division; training of division personnel; quality assurance; test equipment management and administration; EMI; and supply.



## GENERAL NONRESIDENT TRAINING

### ELECTRONICS TECHNICIAN SUPERVISOR (ET1)

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 72410

SN: 0503-LP-218-5900 QR: 15

ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-775-4700 QR: 1

### ELECTRONICS TECHNICIAN SUPERVISOR

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: 12410

SN: 0502-LP-216-7900 QR: 15

Provides information on the ET responsibilities; supervision practices; combat systems organization; NTDS/WDS and combat systems testing; electronics casualty control and reporting; calibration and stowage; electronic test equipment; 2M; and system/test equipment maintenance.

### ELECTRONICS TECHNICIAN, VOL 1, SAFETY

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 82411

SN: 0503-LP-220-4600 QR: 15

ASSIGNMENTS: 1 POINTS: 2

ANSWER KEY SN: 0504-LP-775-7800 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: 12411

SN: 0502-LP-220-4400 QR: 15

Discusses the history of the Navy's safety program and then presents topics specifically related to the job of the Electronics Technician. General topics are: the primary causes of mishaps and methods for preventing mishaps; and the safety-related responsibilities of the typical chain of command, from the commanding officer down to the individual worker. Specific topics include the general requirements and restrictions associated with obtaining, using, and storing hazardous materials; electric shock and its effects on the human body; electromagnetic radiation and its effects on the human body; the tag-out bill; and safety equipment used by Electronics Technicians.

Special Information: This course requires the student to refer to the *Navy Occupational Safety and Health (NAVOSH) Program Manual for Forces Afloat*, OPNAVINST 5100.19B, and *Standard Organization and Regulations of the U.S. Navy*, OPNAVINST 3120.32B.

## GENERAL NONRESIDENT TRAINING

### **ELECTRONICS TECHNICIAN, VOL 2, ADMINISTRATION**

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82412

SN: 0503-LP-477-5100 QR: 15

ASSIGNMENTS: 1 POINTS: 2

ANSWER KEY SN: 0504-LP-775-7900 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12412

SN: 0502-LP-477-4900 QR: 15

Provides an overview of general and technical administration and logistics. Included are descriptions of forms and procedures included in the Maintenance Data System (MDS) and publications that should be included in a ship's technical library. Also included is a basic description of the Naval Supply System and COSAL.

### **ELECTRONICS TECHNICIAN, VOL 3, COMMUNICATIONS SYSTEMS**

TRAMAN/NRTC

EDITION: 1997

NAVEDTRA NUMBER: 12413-A

SN: 0502-LP-012-8820 QR: 15

ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-012-8830 QR: 1

Provides operations-related information on Navy communications systems including SAS, TEMPEST, satellite communications, Links 11, 4-A, and 16, the C2P system, and a basic introduction to local area networks (LANs).

### **ELECTRONICS TECHNICIAN, VOL 4, RADAR SYSTEMS**

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82414

SN: 0503-LP-478-1100 QR: 15

ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-775-8100 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12414

SN: 0502-LP-478-0900 QR: 15

Provides a basic introduction to air search, surface search, ground-controlled approach, and carrier controlled approach RADAR systems. Included are basic terms associated with RADAR systems, descriptions of equipment that compose the common systems, descriptions of RADAR interfacing procedures and equipment, and PRIMARY RADAR SAFETY TOPICS.

### **ELECTRONICS TECHNICIAN, VOL 5, NAVIGATION SYSTEMS**

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 82415

SN: 0503-LP-479-3900 QR: 20

ASSIGNMENTS: 1 POINTS: 2

ANSWER KEY SN: 0504-LP-775-8200 QR: 1

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12415

SN: 0502-LP-479-3800 QR: 20

Introduces the primary navigation systems used by U.S. Navy surface vessels. It provides a basic introduction to and explanation of the Ship's Inertial Navigation System (SINS), the U.S. Navy Navigation Satellite System (NNSS), and the NAVSTAR Global Positioning System (GPS) and associated equipment. It then provides an introduction to and explanation of the Tactical Air Navigation system (TACAN) and its associated equipment. The information provided is written at an introductory level and is not intended to be used by technicians for diagnoses or repairs.

# GENERAL NONRESIDENT TRAINING

## **ELECTRONICS TECHNICIAN, VOL 6, DIGITAL DATA SYSTEMS**

NRTC

EDITION: 1997

NAVEDTRA NUMBER: 82416-A

SN: 0503-LP-003-3670 QR: 20

ASSIGNMENTS: 14 POINTS: 21

ANSWER KEY SN: 0504-LP-003-3680 QR: 1

TRAMAN

EDITION: 1997

NAVEDTRA NUMBER: 12416-A

SN: 0502-LP-003-3660 QR: 20

Covers the following subject matter on computers and peripherals: fundamentals and operations, configurations and hardware, operator controls and controlling units, components and circuits, central processing units and buses, memories, input/output and interfacing, instructions and man/machine interfaces, magnetic tape storage, magnetic disk storage, CD-ROM storage, printers, data conversion devices and switchboards.

## **ELECTRONICS TECHNICIAN, VOL 7, ANTENNAS AND WAVE PROPAGATION**

NRTC

EDITION: 1995

NAVEDTRA NUMBER: 82417

SN: 0503-LP-480-3000 QR: 20

ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-777-7800 QR: 1

TRAMAN

EDITION: 1995

NAVEDTRA NUMBER: 12417

SN: 0502-LP-480-2900 QR: 20

Covers a basic introduction to antennas and wave propagation. It includes discussions about the effects of the atmosphere on rf communications, the various types of communications and radar antennas in use today, and a basic discussion of transmission lines and waveguide theory.

## **ELECTRONICS TECHNICIAN, VOL 8, SUPPORT SYSTEMS**

NRTC

EDITION: 1996

NAVEDTRA NUMBER: 82418

SN: 0503-LP-480-3200 QR: 20

ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-777-9500 QR: 1

TRAMAN

EDITION: 1996

NAVEDTRA NUMBER: 12418

SN: 0502-LP-480-3100 QR: 20

Provides a basic introduction to support systems: liquid cooling, dry air, ac power distribution, ship's input, and information transfer. It includes discussions on configuration, operation and maintenance of these systems.

## **ELECTRONICS TECHNICIAN, VOL 9, ELECTRO-OPTICS**

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82419

SN: 0503-LP-477-6600 QR: 15

ASSIGNMENTS: 1 POINTS: 2

ANSWER KEY SN: 0504-LP-775-0100 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12419

SN: 0502-LP-477-6400 QR: 15

Provides a basic overview of electro-optical devices used in the U. S. Navy. Identifies the devices in current use and explains their operating principles and how they are used.

# GENERAL NONRESIDENT TRAINING

## ELECTRONICS WARFARE TECHNICIAN 1 & C

NRTC  
EDITION: 1993  
NAVEDTRA NUMBER: 82480  
SN: 0503-LP-477-2300 QR: 5  
ASSIGNMENTS: 3 POINTS: 5

ERRATA #1 DATED: 9501  
SN: 0503-LP-477-2301 QR: 5

ANSWER KEY SN: 0504-LP-775-0600 QR: 1

TRAMAN  
EDITION: 1993  
NAVEDTRA NUMBER: 12480  
SN: 0502-LP-477-2200 QR: 5

Provides information on correspondence documents and publications; EW training and readiness; EW assets and capabilities; Navy EW organization and missions; emission control; EW operations planning and coordination; and ECM/ECCM employment.

Special Information: **WARNING!** These products are classified SECRET/NOFORN.

## ELECTRONICS WARFARE TECHNICIAN 3 & 2

NRTC  
EDITION: 1992  
NAVEDTRA NUMBER: 82478  
SN: 0503-LP-218-3100 QR: 5  
ASSIGNMENTS: 5 POINTS: 9

ANSWER KEY SN: 0504-LP-775-0500 QR: 1

TRAMAN  
EDITION: 1992  
NAVEDTRA NUMBER: 12478  
SN: 0502-LP-218-2900 QR: 5

Provides detailed information on Introduction to electronic warfare; CIC and EW organization; analysis and identification; communications and reporting; logs, status boards, and plots; shipboard electronic warfare support measures (ESM) equipment; shipboard electronic countermeasures (ECM) equipment; auxiliary electronic warfare equipments; security and publications; maintenance.

Special Information: **WARNING!** These products are classified SECRET/WNINTEL/NOFORN.

## ENGINEERING ADMINISTRATION

NRTC  
EDITION: 1992  
NAVEDTRA NUMBER: 82147  
SN: 0503-LP-219-2900 QR: 50  
ASSIGNMENTS: 6 POINTS: 9

ERRATA #1 DATED: 9409  
SN: 0503-LP-219-2901 QR: 50

ANSWER KEY SN: 0504-LP-775-6400 QR: 1

TRAMAN  
EDITION: 1992  
NAVEDTRA NUMBER: 12147  
SN: 0502-LP-219-2800 QR: 50

Covers the duties and responsibilities of engineering department personnel in the following areas: operation, organization, records systems, training, material, environmental policies and procedures, maintenance administration, quality assurance, ship availabilities, repair activities, ship trials, and occupational health programs.

## ENGINEERING AID 1

NRTC  
EDITION: 1995  
NAVEDTRA NUMBER: 82540-A  
SN: 0503-LP-480-8100 QR: 15  
ASSIGNMENTS: 4 POINTS: 8

ANSWER KEY SN: 0504-LP-777-6200 QR: 1

## ENGINEERING AID INTERMEDIATE/ADVANCED

TRAMAN  
EDITION: 1994  
NAVEDTRA NUMBER: 12540  
SN: 0502-LP-477-8800 QR: 15

Discusses the principles of administration; organization and function of an EA1 in an NMCB operations department; fundamentals of geodesy and field astronomy; classification of soils by sieve analysis and according to the USCS; concrete design; bituminous mix design; soil stabilization and design.

# GENERAL NONRESIDENT TRAINING

## ENGINEERING AID 2

NRTC  
EDITION: 1994  
NAVEDTRA NUMBER: 72540  
SN: 0503-LP-477-8900 QR: 5  
ASSIGNMENTS: 12 POINTS: 18

ERRATA #1 DATED: 9705  
SN: 0503-LP-477-8901 QR: 20

ANSWER KEY SN: 0504-LP-776-4200 QR: 1

## ENGINEERING AID INTERMEDIATE/ADVANCED

TRAMAN  
EDITION: 1994  
NAVEDTRA NUMBER: 12540  
SN: 0502-LP-477-8800 QR: 5

Discusses the basic knowledge of the materials and methods of construction used for heavy timber, structural steel construction, and mechanical and electrical systems; horizontal construction; development and use of construction drawings and specifications; checking and editing construction drawings; planning and estimating manpower, material, and equipment quantities; care and adjustment of surveying equipment; field tests and adjustment of surveying equipment; obtaining and converting field notes into topographic maps; computing areas by DMD and trapezoidal rule; techniques of computing horizontal and vertical curves, level, and traverse; procedures for land, topographic, and triangulation surveys; and testing soils moisture content, liquid limits, specific gravity, compaction, and density.

## ENGINEERING AID 3

NRTC  
EDITION: 1995  
NAVEDTRA NUMBER: 80696-A  
SN: 0503-LP-480-7900 QR: 15  
ASSIGNMENTS: 13 POINTS: 20

ANSWER KEY SN: 0504-LP-777-6300 QR: 1

## ENGINEERING AID BASIC

TRAMAN  
EDITION: 1995  
NAVEDTRA NUMBER: 10696-A  
SN: 0502-LP-480-7800 QR: 15

ERRATA #2 DATED: 1996  
SN: 0502-LP-480-7802 QR: 15

Covers the following topics: mathematics and the units of mathematics; drafting equipment; drafting fundamentals and techniques; geometric construction; drafting projections and sketches; wood and light-frame construction; concrete and masonry; mechanical systems and plans; electrical systems and plans; construction drawings; elements of surveying and surveying equipment; direct linear measurements; field survey safety; horizontal control; direct leveling and basic engineering surveys; material testing for soil and concrete; and administration.

## ENGINEMAN FUNDAMENTALS, VOL 1— RECIPROCATING ENGINES AND DRIVE MECHANISMS

NRTC  
EDITION: 1996  
NAVEDTRA NUMBER: 82170  
SN: 0503-LP-483-8100 QR: 15  
ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-778-0100 QR: 1

TRAMAN  
EDITION: 1996  
NAVEDTRA NUMBER: 12170  
SN: 0502-LP-483-7900 QR: 15

Explains principles of operation for internal-combustion engines and their associated drive mechanisms. Presented in a new format.

# GENERAL NONRESIDENT TRAINING

## ENGINEMAN 1 & C

TRAMAN/NRTC

EDITION: 1987

NAVEDTRA NUMBER: 10543-E1

SN: 0502-LP-052-7170 QR: 15

ASSIGNMENTS: 11 POINTS: 22

ERRATA #1 DATED: 1991

SN: 0502-LP-052-7171 QR: 15

ANSWER KEY SN: 0504-LP-775-1300 QR: 1

Provides training on the following subject matter areas: Describes procedures for scheduling, administering, and supervising work; the purpose and nature of the Engineering Operational Sequencing System and Engineering Operational Casualty Control System; troubleshooting and corrective maintenance procedures for diesel engines, their accessories, reduction gears, main line shafts and shaft bearings; factors affecting engine performance and efficiency; construction, troubleshooting and maintenance of complex refrigeration and air conditioning systems, compressed air systems, auxiliary boilers, and hydraulic systems; procedures for engineering casualty control, maintaining engineering records and reports, conducting trials of engineering equipment and systems, and preparing for administrative and operational inspection.

## ENGINEMAN 2

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 82149

SN: 0503-LP-217-7100 QR: 15

ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-775-6500 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: 12149

SN: 0502-LP-217-6900 QR: 15

Prepares enlisted personnel for advancement to petty officer second class in the Engineman rating. This course includes the following topics: administration and training; measuring and repair instruments; internal combustion engines; speed controlling devices; refrigeration and air-conditioning; compressed air systems; laundry, mess deck, galley, scullery, and other auxiliary equipment; and lathe and machining operations.

## ENGINEMAN 3

NRTC

EDITION: 1989

NAVEDTRA NUMBER: 80539

SN: 0503-LP-221-9300 QR: 20

ASSIGNMENTS: 9 POINTS: 16

ERRATA #1 DATED: 9305

SN: 0503-LP-221-9301 QR: 20

ANSWER KEY SN: 0504-LP-775-5100 QR: 1

TRAMAN

EDITION: 1989

NAVEDTRA NUMBER: 10539

SN: 0502-LP-221-7400 QR: 20

Provides training on the following subject matter areas: the construction, design, principles of operation, and basic maintenance on diesel engines, reduction gears, and related auxiliary equipment and support systems; the design, construction, principles of operation, application, and basic maintenance of marine auxiliary equipment, such as compressed air systems, evaporators, refrigeration and air conditioning systems, deck machinery, steering gear, and laundry and galley equipment.

# GENERAL NONRESIDENT TRAINING

## EQUAL OPPORTUNITY IN THE NAVY

NRTC

EDITION: 1997

NAVEDTRA NUMBER: 13099-E

SN: 0503-LP-003-5280 QR: 30

ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-003-5310 QR: 1

This nonresident training course information vital to all enlisted, commissioned, and civilian personnel with the Department of the Navy. The course covers the following subject matter: Equal Opportunity (EO) responsibilities of commanders; additional EO responsibilities of shore commanders; command managed equal opportunity (CMEO); prevention of sexual harassment; Navy complaint procedures (informal and formal); incident handling and reporting (a commander's guide); Navy EO training, EO issues; definition of terms; Navy EO/Sexual Harassment Formal Complain Form (NAVPERS 5354/2); discrimination/sexual harassment message reporting guidelines; EO assistants duties and responsibilities; CMEO officer duties and responsibilities; EO resources; EO checklist; sample plan of the day notes; and guidelines for the command investigating officer.

Special Information: The text for this course, *Navy Equal Opportunity Manual*, OPNAV Instruction 5354.1D, is **NOT** supplied and must be obtained by the student.

## EQUIPMENT OPERATOR ADVANCED

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82537

SN: 0503-LP-221-6600 QR: 10

ASSIGNMENTS: 6 POINTS: 9

ERRATA #1 DATED: 1995

SN: 0503-LP-221-6601 QR: 10

ANSWER KEY SN: 0504-LP-776-8500 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12537

SN: 0502-LP-221-6400 QR: 10

Provides the basic information required for advanced equipment operators to perform the duties and responsibilities of the following positions: Transportation Supervisor; Air Detachment Equipment Supervisor; Crane Crew Supervisor; Project Supervisor; Quarry Supervisor; Crusher Supervisor; Concrete Batch Plant Supervisor; Asphalt Plant Supervisor; and Well Drilling Supervisor.

## EQUIPMENT OPERATOR BASIC

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 82535

SN: 0503-LP-479-3200 QR: 20

ASSIGNMENTS: 12 POINTS: 18

ANSWER KEY SN: 0504-LP-776-8400 QR: 1

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12535

SN: 0502-LP-479-3100 QR: 20

Covers the principles and operations of electrical and hydraulic systems, engine systems, power trains, chassis systems, tractor-trailers, dump trucks, front-end loaders, excavators, ditchers, graders, scrapers, dozers, rollers, cranes, paving equipment and miscellaneous equipment. Also covered are rules of the road, transportation operations, and rigging.

# GENERAL NONRESIDENT TRAINING

## **FIRE CONTROL TECHNICIAN 1 & C**

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82402

SN: 0503-LP-476-9300 QR: 5

ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-774-9900 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12402

SN: 0502-LP-476-9200 QR: 5

Provides the usual way of satisfying the requirement for completing the *FT 1 & C* TRAMAN necessary for enlisted personnel preparing for advancement to the rates of Fire Control Technician First Class and Chief Petty Officer. The course contains questions concerning the fire control technician rating, fire control systems (MK 118 DWS/CS, CCS MK 1, AN-BSY 1, CCS MK 2), plotting, weapons and their employment, OTH-T, and administration.

Special Information: **WARNING!** These products are classified CONFIDENTIAL/NOFORN.

## **FIRE CONTROL TECHNICIAN (GUN) 3 & 2**

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 82400

SN: 0503-LP-217-2100 QR: 5

ASSIGNMENTS: 7 POINTS: 11

ANSWER KEY SN: 0504-LP-774-9800 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: 12400

SN: 0502-LP-217-1900 QR: 5

Provides background information necessary for enlisted personnel preparing for advancement to the (underwater) rates of Fire Control Technician (G) Third and Second Class. The TRAMAN includes information on the Fire Control Technician Gun Rating, underwater fire control, underwater fire control systems, peripheral equipment, the Digital Computer Set AN/UYK-7(V), general maintenance, and administration. A separate NRTC provides the usual way of satisfying the requirements for completing the TRAMAN.

Special Information: **WARNING!** These products are classified CONFIDENTIAL.

## **FIRE CONTROLMAN SUPERVISOR**

NRTC

EDITION: 1995

NAVEDTRA NUMBER: 82409

SN: 0503-LP-481-1700 QR: 10

ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-777-5200 QR: 1

TRAMAN

EDITION: 1995

NAVEDTRA NUMBER: 12409

SN: 0502-LP-481-1400 QR: 10

Covers Fire Controlman supervisor responsibilities, organization, administration, inspections, and maintenance; supervision and training; combat systems, subsystems, and their maintenance; and weapons exercises.

## **FIRE CONTROLMAN, VOLUME 1--**

### **FIRE-CONTROL ADMINISTRATION AND SAFETY**

TRAMAN/NRTC

EDITION: 1997

NAVEDTRA NUMBER: 12403

SN: 0502-LP-003-3690 QR: 10

ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-003-3720 QR: 1

Covers general administration, technical administration, electronics safety, and hazardous materials as they pertain to the FC rating.

## **FIRE CONTROLMAN, VOLUME 2--**

### **FIRE-CONTROL RADAR FUNDAMENTALS**

TRAMAN/NRTC

EDITION: 1997

NAVEDTRA NUMBER: 12404

SN: 0502-LP-003-3730 QR: 10

ASSIGNMENTS: 1 POINTS: 2

ANSWER KEY SN: 0504-LP-003-3750 QR: 1

Covers basic radar systems and radar safety as they pertain to the Fire Controlman rating.



## GENERAL NONRESIDENT TRAINING

### **FIRE CONTROLMAN, VOLUME 3-- DIGITAL DATA SYSTEMS**

TRAMAN/NRTC

EDITION: 1997

NAVEDTRA NUMBER: 12405

SN: 0502-LP-003-3760 QR: 10

ASSIGNMENTS: 14 POINTS: 21

ANSWER KEY SN: 0504-LP-003-3780 QR: 1

Covers computer and peripheral fundamentals and operations, configurations and hardware, operator controls and controlling units, components and circuits, central processing units and buses, memories, input/output and interfacing, instructions and man/machine interfaces, magnetic tape storage, magnetic disk storage, CD-ROM storage, printers, data conversion devices, and switchboards.

### **FIRE CONTROLMAN, VOLUME 4-- FIRE-CONTROL MAINTENANCE CONCEPTS**

TRAMAN/NRTC

EDITION: 1997

NAVEDTRA NUMBER: 12406

SN: 0502-LP-003-3790 QR: 10

ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-003-3820 QR: 1

Introduces the Planned Maintenance System and discusses methods for identifying and isolating system faults, liquid cooling systems used by Fire Controlmen, battery alignment (purpose, equipment, and alignment considerations), and radar collimation.

### **FIRE CONTROLMAN, VOLUME 5-- DISPLAY SYSTEMS AND DEVICES**

TRAMAN/NRTC

EDITION: 1997

NAVEDTRA NUMBER: 12407

SN: 0502-LP-483-2900 QR: 10

ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-777-9200 QR: 1

Covers basic display devices and input devices associated with Navy tactical data systems as used by the FC rating.

### **FIRE CONTROLMAN, VOLUME 6-- DIGITAL COMMUNICATIONS**

TRAMAN/NRTC

EDITION: 1997

NAVEDTRA NUMBER: 12408

SN: 0502-LP-483-3200 QR: 10

ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-777-9300 QR: 1

Covers the fundamentals of data communications, the Link-11 and Link-4A systems, and local area networks.

## GENERAL NONRESIDENT TRAINING

### FIREMAN

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 82001

SN: 0503-LP-213-7800 QR: 50

ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-775-5600 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: 12001

SN: 0502-LP-213-7700 QR: 50

Provides information on the following subject areas: engineering administration; engineering fundamentals; the basic steam cycle; gas turbines; internal combustion engines; ship propulsion; pumps, valves, and piping; auxiliary machinery and equipment; instruments; shipboard electrical equipment; and environmental controls.

### FLUID POWER

NRTC

EDITION: 1990

NAVEDTRA NUMBER: 82964

SN: 0503-LP-213-2400 QR: 35

ASSIGNMENTS: 5 POINTS: 8

ERRATA #2 DATED: 1992

SN: 0503-LP-213-2402 QR: 35

ANSWER KEY SN: 0504-LP-775-8600 QR: 1

TRAMAN

EDITION: 1990

NAVEDTRA NUMBER: 12964

SN: 0502-LP-213-2300 QR: 35

Presents the fundamentals of fluid power (hydraulics and pneumatics); emphasizes fluid power components and systems having general application in naval equipment. Intended as a basic reference for all Navy personnel whose duties require them to have a knowledge of the fundamentals of fluid power.

### FUNDAMENTALS OF PETROLEUM

NRTC

EDITION: 1988

NAVEDTRA NUMBER: 80883

SN: 0503-LP-480-6400 QR: 25

ASSIGNMENTS: 8 POINTS: 12

ANSWER KEY SN: 0504-LP-776-5200 QR: 1

TRAMAN

EDITION: 1988

NAVEDTRA NUMBER: 10883-C

SN: 0502-LP-054-4165 QR: 25

Provides general background information for personnel who deal directly or indirectly with petroleum and petroleum products needed by the Armed Forces for their ships, aircraft, vehicles, and other mechanized equipment. The course emphasizes the role of petroleum in national defense; petroleum resources; properties of crude petroleum; production and refining of petroleum; procedures in measuring, sampling, and testing petroleum products; types and uses of military petroleum products; quality surveillance; practices in handling, storing, and transporting petroleum products; principles of Navy tanker operations; and operations at a Navy fuel depot.

### GAS TURBINE SYSTEMS SUPERVISOR

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 82158

SN: 0503-LP-478-6300 QR: 10

ASSIGNMENTS: 1 POINTS: 2

ANSWER KEY SN: 0504-LP-775-6800 QR: 1

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12158

SN: 0502-LP-478-6200 QR: 10

Provides information needed by senior petty officers and chiefs responsible for the management, training, and administering of Gas Turbine Systems personnel. Subjects included are programs, reports, and records; power train and propulsion systems; and gas turbine maintenance.

## GENERAL NONRESIDENT TRAINING

### **GAS TURBINE SYSTEM TECHNICIAN (ELECTRICAL) 2**

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 82153

SN: 0503-LP-218-8700 QR: 10

ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-775-6600 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: 12153

SN: 0502-LP-218-8600 QR: 10

Provides information related to the operation and maintenance of gas turbine engineering plants, such as those found on DD-, DDG-, FFG-, CG-, LCAC-, and PHM-class ships. Topics include administration; uninterrupted power supply systems; engineering control system operation; engineering support systems maintenance; electrical and electronic systems maintenance; pressure, temperature, and level control devices; and the LCAC and PHM propulsion systems.

### **GAS TURBINE SYSTEMS TECHNICIAN (MECHANICAL) 2**

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82157

SN: 0503-LP-220-5400 QR: 15

ASSIGNMENTS: 5 POINTS: 8

ANSWER KEY SN: 0504-LP-775-6700 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12157

SN: 0502-LP-220-5300 QR: 15

Provides training material on the following subject matter areas: General engineering administration; oil laboratory procedures and administration; engineering control system operation; engineering support and auxiliary equipment and systems; propulsion plant systems and drive train equipment; LCAC and PHM propulsion systems; and an overview of electric plants found aboard gas turbine-powered ships.

### **GAS TURBINE SYSTEMS TECHNICIAN (ELECTRICAL) 3/GAS TURBINE SYSTEMS TECHNICIAN (MECHANICAL) 3, VOL 1**

NRTC

EDITION: 1989

NAVEDTRA NUMBER: 80563

SN: 0503-LP-212-8100 QR: 10

ASSIGNMENTS: 8 POINTS: 12

ANSWER KEY SN: 0504-LP-775-5300 QR: 1

TRAMAN

EDITION: 1989

NAVEDTRA NUMBER: 10563

SN: 0502-LP-212-6400 QR: 10

Provides information on the following topics: administration, engineering safety, basic scientific principles, electrical instruments, gas turbine theory and construction, the main reduction gear and controllable pitch propeller, associated auxiliary equipment, and logs and records. This course may be used as a basic reference for any Navy person striking for the GS rating.

### **GAS TURBINE SYSTEMS TECHNICIAN (ELECTRICAL) 3/GAS TURBINE SYSTEMS TECHNICIAN (MECHANICAL) 3, VOL 2**

NRTC

EDITION: 1991

NAVEDTRA NUMBER: 80564

SN: 0503-LP-213-6600 QR: 10

ASSIGNMENTS: 10 POINTS: 12

ANSWER KEY SN: 0504-LP-775-5400 QR: 1

TRAMAN

EDITION: 1991

NAVEDTRA NUMBER: 10564

SN: 0502-LP-213-6400 QR: 10

Provides information related to the operation and maintenance of gas turbine engineering plants. Topics covered include gas turbine fundamentals, gas turbine construction, engineering auxiliary and support equipment, and engineering control systems on DD-, CG-, and DDG-class ships. This course is also recommended for any person assigned to a gas turbine ship who needs to understand the operation of this propulsion system.

## GENERAL NONRESIDENT TRAINING

### GUNNER'S MATE 1 & C

NRTC  
EDITION: 1996  
NAVEDTRA NUMBER: 82443  
SN: 0503-LP-480-3600 QR: 25  
ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-003-3430 QR: 1

### GUNNER'S MATE

TRAMAN  
EDITION: 1996  
NAVEDTRA NUMBER: 12443  
SN: 0502-LP-480-3300 QR: 25

Covers explosives and pyrotechnics; ammunition, magazines, and missile handling; small arms; basic mechanisms; electrical and electronic circuit analysis; gun mounts; GMLS: primary functions and descriptions; GMLS: secondary and auxiliary functions; SMS guided missiles, aerodynamics, and flight principles; target detection and weapons control; alignment; maintenance; and administration and training.

### GUNNER'S MATE 3 & 2

NRTC  
EDITION: 1996  
NAVEDTRA NUMBER: 72443  
SN: 0503-LP-480-3500 QR: 25  
ASSIGNMENTS: 8 POINTS: 12

ANSWER KEY SN: 0504-LP-003-3440 QR: 1

### GUNNER'S MATE

TRAMAN  
EDITION: 1996  
NAVEDTRA NUMBER: 12443  
SN: 0502-LP-480-3300 QR: 25

Covers explosives and pyrotechnics; ammunition, magazines, and missile handling; small arms; basic mechanisms; electrical and electronic circuit analysis; gun mounts; GMLS: primary functions and descriptions; GMLS: secondary and auxiliary functions; SMS guided missiles, aerodynamics, and flight principles; target detection and weapons control; alignment; maintenance; and administration and training.

### HARMONY

SP  
EDITION: 1990  
NAVEDTRA NUMBER: 12012  
SN: 0502-LP-213-0600 QR: 5

Discusses use and formation of harmony.

### HOSPITAL CORPSMAN 1 & C

NRTC  
EDITION: 1986  
NAVEDTRA NUMBER: 80670  
SN: 0503-LP-500-5700 QR: 50  
ASSIGNMENTS: 5 POINTS: 10

ERRATA #1 DATED: 1991  
SN: 0503-LP-500-5701 QR: 50

ANSWER KEY SN: 0504-LP-776-1500 QR: 1

### TRAMAN

EDITION: 1986  
NAVEDTRA NUMBER: 10670-C  
SN: 0502-LP-053-3510 QR: 50

Covers patient assessment and treatment; diet therapy; prescriptions; preventive medicine; medical aspects of chemical, biological, and radiological defense; clinical laboratory; naval organization; naval manuals, directives, and reports; Navy correspondence and classified information; personnel records and accounting; Navy medical finance and supply; decedent affairs program; legal implications in medical care; and health care administration.

## GENERAL NONRESIDENT TRAINING

### HOSPITAL CORPSMAN 3 & 2

NRTC

EDITION: 1989

NAVEDTRA NUMBER: 80669

SN: 0503-LP-218-9600 QR: 50

ASSIGNMENTS: 8 POINTS: 10

ERRATA #2 DATED: 1995

SN: 0503-LP-218-9602 QR: 50

ANSWER KEY SN: 0504-LP-776-1400 QR: 1

TRAMAN

EDITION: 1989

NAVEDTRA NUMBER: 10669-C

SN: 0502-LP-218-8100 QR: 50

Covers anatomy and physiology; first aid and emergency procedures; patient care; clinical laboratory, pharmacology and toxicology; pharmacy; health records and physical examinations; administration; preventive medicine; and chemical, biological, and radiological warfare.

### HULL MAINTENANCE TECHNICIAN

NRTC

EDITION: 1995

NAVEDTRA NUMBER: 82219

SN: 0503-LP-479-6900 QR: 25

ASSIGNMENTS: 10 POINTS: 15

ERRATA #1 DATED: 9603

SN: 0503-LP-479-6901 QR: 10

ANSWER KEY SN: 0504-LP-777-8100 QR: 1

TRAMAN

EDITION: 1995

NAVEDTRA NUMBER: 12219

SN: 0502-LP-479-6800 QR: 25

ERRATA #1 DATED: 9603

SN: 0502-LP-479-6801 QR: 10

Provides information in the following subject matter areas: safety; ship repair; woodworking cuts and joints; small boat repair and deck coverings; tools and equipment; metallurgy; introduction to cutting and welding; oxyacetylene cutting and welding; brazing and braze welding; metal-arc welding and cutting; nondestructive tests and inspection of welds; sheet metal layout and fabrication; structural steel fabrication; shop mathematics; piping systems; piping system repairs; and sewage systems.

## GENERAL NONRESIDENT TRAINING

### **ILLUSTRATOR DRAFTSMAN 1 & C, VOLUME 1--EQUIPMENT**

NRTC

EDITION: 1997

NAVEDTRA NUMBER: 82720

SN: 0503-LP-481-6900 QR: 5

ASSIGNMENTS: 1 POINTS: 2

ANSWER KEY SN: 0504-LP-777-7100 QR: 1

### **ILLUSTRATOR DRAFTSMAN, VOLUME 1--EQUIPMENT**

TRAMAN

EDITION: 1997

NAVEDTRA NUMBER: 12720

SN: 0502-LP-481-6800 QR: 5

This is one of four in the DM training series. Volume 1 is an overview of general shop administration; equipment, equipment capabilities, limitations, and maintenance; and required operator adjustments.

### **ILLUSTRATOR DRAFTSMAN 3 & 2, VOLUME 1--EQUIPMENT**

NRTC

EDITION: 1997

NAVEDTRA NUMBER: 72720

SN: 0503-LP-003-3610 QR: 5

ASSIGNMENTS: 5 POINTS: 8

ANSWER KEY SN: 0504-LP-003-3620 QR: 1

### **ILLUSTRATOR DRAFTSMAN, VOLUME 1--EQUIPMENT**

TRAMAN

EDITION: 1997

NAVEDTRA NUMBER: 12720

SN: 0502-LP-481-6800 QR: 5

This is one of four in the DM training series. Volume 1 is an overview of general shop administration; equipment, equipment capabilities, limitations, and maintenance; and required operator adjustments.

### **ILLUSTRATOR DRAFTSMAN, VOLUME 4--PRESENTATIONS GRAPHICS**

TRAMAN/NRTC

EDITION: 1997

NAVEDTRA NUMBER: 12723

SN: 0502-LP-481-7600 QR: 5

1&C: ASSIGNMENTS: 2 POINTS: 3

3&2: ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-003-7260

This is Volume 4 in the DM training series. The training manual and accompanying NRTCs in Volume 4 cover the following subjects pertaining to presentations graphics: prepress copy preparation, television graphics, displays, exhibits, and audiovisual presentations. NOTE: Both courses are bound within the covers of this textbook.

### **INSTRUMENTMAN 1 & C**

NRTC

EDITION: 1990

NAVEDTRA NUMBER: 82202

SN: 0503-LP-213-0900 QR: 10

ASSIGNMENTS: 6 POINTS: 10

ANSWER KEY SN: 0504-LP-775-7300 QR: 1

TRAMAN

EDITION: 1990

NAVEDTRA NUMBER: 12202

SN: 0502-LP-213-0800 QR: 10

Provides training in the following areas: administration of Instrument Repair Shops, Mechanical Instrument Repair and Calibration Shops (MIRCS), Fleet Mechanical Calibration Laboratories (FMCL), Watch Repair Shops, and Office Machine Repair Facilities; Traceability, equipment, procedural, calibration, and instrument standardization within the Navy Calibration Program for measuring equipment and test measuring instruments; functions of the torque, pressure, temperature, and the oxygen clean areas of MIRCS and FMCLs, including a Report of Calibration for Deadweight Testers; manufacture and replacement of watch repair parts and special tools, casualty analysis procedures and testing of Naval timepieces, manipulation and manufacture of hairsprings; position, beat, temperature compensation, and isochronal adjustments for elimination of conditions that effect the degree of accuracy of timepieces; interpretation of data produced by watch/clock timing machines and test equipment.

## GENERAL NONRESIDENT TRAINING

### INSTRUMENTMAN 3 & 2

NRTC

EDITION: 1986

NAVEDTRA NUMBER: 80193

SN: 0503-LP-500-0930 QR: 10

ASSIGNMENTS: 8 POINTS: 16

ANSWER KEY SN: 0504-LP-775-4900 QR: 1

TRAMAN

EDITION: 1986

NAVEDTRA NUMBER: 10193-D

SN: 0502-LP-050-9655 QR: 10

Provides basic information on the principles of measurement and physics, incorporating the classification, principles of design, construction, and repair of pressure measuring devices, temperature measuring devices, tachometers, liquid-level indicators, flow indicators, torque measuring devices, combustible gas indicators, and linear measurement devices; the operation and maintenance of the appropriate test equipment used in calibration facilities, following the procedures and specifications outlined by the Metrology Engineering Center, NAVSEASYS COM; chemicals and chemicals handling; principles of soldering and brazing, and manufacture of special parts and tools; purpose, function, operation, repair, adjustment, and casualty analysis of electric typewriters, and liquid and stencil process duplicating machines.

### INTELLIGENCE SPECIALIST 1 & C

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 82806

SN: 0503-LP-217-9900 QR: 5

ASSIGNMENTS: 8 POINTS: 12

ANSWER KEY SN: 0504-LP-775-1100 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: 12806

SN: 0502-LP-217-9800 QR: 5

Provides detailed information on Intelligence Specialist mission orientation, intelligence operational planning, intelligence collection, intelligence sensor systems, intelligence data system fundamentals, foreign weapon systems, foreign threats to U.S. forces, and security and SSO orientation.

Special Information: **WARNING!** These products are classified SECRET/WNINTEL/NOFORN.

### INTELLIGENCE SPECIALIST 3 & 2, VOL 1

NRTC

EDITION: 1996

NAVEDTRA NUMBER: 82804

SN: 0503-LP-483-8300 QR: 10

ASSIGNMENTS: 9 POINTS: 14

ANSWER KEY SN: 0504-LP-778-0200 QR: 1

TRAMAN

EDITION: 1996

NAVEDTRA NUMBER: 12804

SN: 0502-LP-483-8200 QR: 10

Covers the U.S. intelligence community; intelligence administration; security; aerial photography, titling, plotting, and forwarding of related intelligence photography; mosaics, overlays, and graphics; photometrics and imagery interpretation; and automated information systems.

Special Information: **ATTENTION!** This course replaces the following courses: *Intelligence Specialist 3 & 2, Vol 1*, NAVEDTRA 10271-1, **AND** *Intelligence Specialist 3 & 2, Vol 2*, NAVEDTRA 10272/80272. When available, *Intelligence Specialist 3 & 2, Vol 2*, NAVEDTRA 12805/82805 will replace *Intelligence Specialist 3 & 2, Vol 3*, NAVEDTRA 10273/80273.

## GENERAL NONRESIDENT TRAINING

### INTELLIGENCE SPECIALIST 3 & 2, VOL 3

NRTC

EDITION: 1990

NAVEDTRA NUMBER: 80273

SN: 0503-LP-219-7600 QR: 5

ASSIGNMENTS: 8 POINTS: 12

ANSWER KEY SN: 0504-LP-774-9400 QR: 1

TRAMAN

EDITION: 1990

NAVEDTRA NUMBER: 10273

SN: 0502-LP-219-5400 QR: 5

Covers operational intelligence, operational intelligence processing, intelligence collection, methods of processing and disseminating intelligence, reporting methods and formats, U.S. naval forces and their missions, Soviet naval forces, Third World naval threats, and terrorism.

Special Information: **WARNING!** These products are classified SECRET/WNINTEL/NOFORN.

### INTERIOR COMMUNICATIONS ELECTRICIAN, VOL 1

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 82160

SN: 0503-LP-479-5800 QR: 15

ASSIGNMENTS: 10 POINTS: 15

ANSWER KEY SN: 0504-LP-775-6900 QR: 1

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12160

SN: 0502-LP-479-5700 QR: 15

Provides information on the following topics: electrical and general safety precautions; switches, protection devices, and cables; power distribution, IC switchboards, and controllers; gyrocompass systems; sound-powered telephone system; automatic dial telephone systems; amplified voice systems; ship's entertainment systems; alarm, safety, and warning systems; ship's order indicating and metering systems; and auxiliary electrical equipment.

### INTERIOR COMMUNICATIONS ELECTRICIAN, VOL 2

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82161

SN: 0503-LP-476-5800 QR: 15

ASSIGNMENTS: 4 POINTS: 6

ERRATA #2 DATED: 1997

SN: 0503-LP-476-5802 QR: 15

ANSWER KEY SN: 0504-LP-775-7000 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12161

SN: 0502-LP-476-5700 QR: 15

Provides information in the following areas: manual bus transfers, motor controllers, and frequency regulators; anemometer systems; the stabilized glide slope (SGSI) system; and technical administration.

### INTERIOR COMMUNICATIONS ELECTRICIAN, VOL 3

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 82162

SN: 0503-LP-218-4600 QR: 20

ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-775-7100 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: 12162

SN: 0502-LP-218-4400 QR: 20

Provides information in the following subject matter areas: technical administration and supervision; quality assurance program and procedures; ships' drawing and diagrams; and standard maintenance procedures.



# GENERAL NONRESIDENT TRAINING

## INTRODUCTION TO PROGRAMMING IN BASIC

TRAMAN/NRTC

EDITION: 1983

NAVEDTRA NUMBER: 10079-2

SN: 0502-LP-050-3970 QR: 15

ASSIGNMENTS: 2 POINTS: 3

ERRATA #1 DATED: 1990

SN: 0502-LP-050-3971 QR: 15

ANSWER KEY SN: 0504-LP-776-3400 QR: 1

Provides an introduction to computer programming and to the BASIC programming language. It includes BASIC instructions, rules, and sample problems. BASIC is a popular language for new programmers and casual computer users. Its use of near English words and mathematical expressions gives the coding a familiar appearance. No prior computer experience is required. The text has end-of-chapter questions and practice problems with answers.

## INTRODUCTION TO THE DEPARTMENT OF THE NAVY INFORMATION AND PERSONNEL SECURITY PROGRAM

NRTC

EDITION: 1991

NAVEDTRA NUMBER: 13080

SN: 0503-LP-481-2300 QR: 15

ASSIGNMENTS: 8 POINTS: 12

ERRATA #1 DATED: 9308

SN: 0503-LP-481-2301 QR: 15

ANSWER KEY SN: 0504-LP-777-5400 QR: 1

Provides the student with a basic introduction into the Navy Information and Personnel Security Program, as outlined in OPNAVINST 5510.1H. The emphasis of this course is on the operational requirements involved with classified material. The student will understand the importance of protecting classified information from unauthorized disclosure and the procedures that must be followed when working in security sensitive areas.

Special Information: The text for this course, *Department of the Navy Information and Personnel Security Program*, OPNAVINST 5510.1H, is NOT supplied and must be obtained by the student.

## JOURNALIST 1 & C

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 82706

SN: 0503-LP-218-9200 QR: 5

ASSIGNMENTS: 9 POINTS: 15

ANSWER KEY SN: 0504-LP-776-8900 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: 12706

SN: 0502-LP-218-9100 QR: 5

ERRATA #1 DATED: 1992

SN: 0502-LP-218-9101 QR: 5

Describes the principles of accomplishing the following tasks: managing a public affairs office, public affairs in adverse news situations; operating a command information bureau (CIB); dealing with the mass media; developing and implementing a community relations program; planning and staging special events; preparing and giving speeches; operating a speakers bureau; managing the staff of a civilian enterprise (CE) or funded newspaper; managing a Navy Broadcasting Service (NBS) detachment; and conducting audience surveys.

# GENERAL NONRESIDENT TRAINING

## **JOURNALIST 3 & 2**

NRTC  
EDITION: 1994  
NAVEDTRA NUMBER: 82704  
SN: 0503-LP-478-3200 QR: 5  
ASSIGNMENTS: 13 POINTS: 20

ANSWER KEY SN: 0504-LP-776-8800 QR: 1

## **TRAMAN**

EDITION: 1994  
NAVEDTRA NUMBER: 12704  
SN: 0502-LP-478-3100 QR: 5

Covers the Navy Journalist in terms of the following subject matter areas: basic newswriting; writing the feature, speech, sports and accident stories; writing for magazines; advance stories, follow-ups and rewrites; copy editing; gathering and disseminating Navy news; printing, layout and makeup; writing headlines and cutlines; libel, right of privacy, freedom of information and copyright; basic photography; basic photojournalism; radio; television; radio and television interviewing; public affairs office operations; and home town news.

## **LEGALMAN 1 & C**

NRTC  
EDITION: 1994  
NAVEDTRA NUMBER: 82609  
SN: 0503-LP-221-8800 QR: 15  
ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-776-2200 QR: 1

## **LEGALMAN**

TRAMAN  
EDITION: 1994  
NAVEDTRA NUMBER: 12609  
SN: 0502-LP-221-8300 QR: 15

Covers drafting correspondence; instructions and notices; legal research; pretrial confinement procedures; chain of custody procedures; review of charge sheets; interviewing witnesses; administrative discharge warnings; service of process and subpoenas; claims; administrative investigations; office organization and management; and letters of indebtedness.

## **LEGALMAN 3 & 2**

NRTC  
EDITION: 1994  
NAVEDTRA NUMBER: 72609  
SN: 0503-LP-221-8400 QR: 15  
ASSIGNMENTS: 9 POINTS: 13

ANSWER KEY SN: 0504-LP-775-9700 QR: 1

## **LEGALMAN**

TRAMAN  
EDITION: 1994  
NAVEDTRA NUMBER: 12609  
SN: 0502-LP-221-8300 QR: 15

Covers general administration and security; the law library; court reporting; constitutional considerations; nonjudicial punishment; pretrial matters; court-martial trials; posttrial duties and the review process; administrative separations; delivery of personnel; and legal assistance.

## **LITHOGRAPHER 1 & C**

NRTC  
EDITION: 1987  
NAVEDTRA NUMBER: 80452  
SN: 0503-LP-500-3520 QR: 5  
ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-776-4900 QR: 1

## **LITHOGRAPHER**

TRAMAN  
EDITION: 1987  
NAVEDTRA NUMBER: 10451  
SN: 0502-LP-052-2600 QR: 5

Contains information on the following topics: Cold-type composition, photographic materials, production of line negatives, the offset press, the 19- by 25-inch Harris offset press, maintenance of lithographic equipment, pressroom troubles, administration of reproduction, techniques of supervision, and photographic problems.

## GENERAL NONRESIDENT TRAINING

### LITHOGRAPHER 3 & 2

NRTC  
EDITION: 1987  
NAVEDTRA NUMBER: 80451  
SN: 0503-LP-500-3510 QR: 5  
ASSIGNMENTS: 13 POINTS: 20

ANSWER KEY SN: 0504-LP-776-4800 QR: 1

### LITHOGRAPHER

TRAMAN  
EDITION: 1987  
NAVEDTRA NUMBER: 10451  
SN: 0502-LP-052-2600 QR: 5

Contains information on the following topics: The Navy Lithographer, planning reproduction, cold-type composition, artwork preparation, photographic equipment, photographic materials, production of line negatives, production of halftone negatives, stripping and negative correction, platemaking, the offset press, Multilith presses, the A. B. Dick offset duplicator, the 19- by 25- inch Harris offset press, paper and ink, and bindery equipment.

### LOOKOUT TRAINING HANDBOOK

SP  
EDITION: 1991  
NAVEDTRA NUMBER: 12968  
SN: 0502-LP-214-2800 QR: 50

Describes the duties of a lookout and the equipment lookouts use. Contains illustrations and references for the recognition of navigation aids, signals, naval and merchant ships, and aircraft.

### MACHINERY REPAIRMAN 2, 1 & C

NRTC  
EDITION: 1993  
NAVEDTRA NUMBER: 82204-A  
SN: 0503-LP-477-5800 QR: 15  
ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-775-7400 QR: 1

### MACHINERY REPAIRMAN

TRAMAN  
EDITION: 1993  
NAVEDTRA NUMBER: 12204-A  
SN: 0502-LP-477-5600 QR: 15

Covers the tools, shop equipment, and methods commonly used by an MR2, MR1, and MRC in the operation of a Navy machine shop.

### MACHINERY REPAIRMAN 3

NRTC  
EDITION: 1993  
NAVEDTRA NUMBER: 72204  
SN: 0503-LP-477-5700 QR: 15  
ASSIGNMENTS: 7 POINTS: 11

ERRATA #1 DATED: 9405  
SN: 0503-LP-477-5701 QR: 15

ANSWER KEY SN: 0504-LP-775-4500 QR: 1

### MACHINERY REPAIRMAN

TRAMAN  
EDITION: 1993  
NAVEDTRA NUMBER: 12204-A  
SN: 0502-LP-477-5600 QR: 15

Covers the tools, shop equipment, and methods commonly used by an MR3 in the operation of a Navy machine shop.

## GENERAL NONRESIDENT TRAINING

### MACHINIST'S MATE 1 & C (SURFACE)

NRTC

EDITION: 1996

NAVEDTRA NUMBER: 82145

SN: 0503-LP-002-1510 QR: 25

ASSIGNMENTS: 9 POINTS: 12

ANSWER KEY SN: 0504-LP-002-1540 QR: 1

TRAMAN

EDITION: 1996

NAVEDTRA NUMBER: 12145

SN: 0502-LP-002-1490 QR: 25

Provides information on the following subjects: management programs; propulsion turbines; reduction gears; steam-driven generators; heat exchangers and air ejectors; pumps, distilling plants; refrigeration and air conditioning; auxiliary equipment; propulsion plant efficiency; quality assurance; record systems; boiler firesides and waterside, boiler fittings and instruments; and environmental policies and procedures.

### MACHINIST'S MATE 3 & 2 (SURFACE)

NRTC

EDITION: 1997

NAVEDTRA NUMBER: 82146

SN: 0503-LP-007-8190 QR: 15

ASSIGNMENTS: 13 POINTS: 20

ANSWER KEY SN: 0504-LP-007-8210 QR: 1

TRAMAN

EDITION: 1997

NAVEDTRA NUMBER: 12146

SN: 0502-LP-007-8180 QR: 15

This TRAMAN provides information on the following topics in the MM (Surface) rating: introduction to the MM (Sur) rating; steam turbines; reduction gears and associated equipment; lubrication and associated equipment; pumps and forced draft blowers; heat exchangers and air ejectors; engineering operations and administration; steam operated distilling plants, valves, pipe fittings, and piping; refrigeration and air conditioning; compressed air systems; auxiliary equipment; propulsion boilers and boiler fittings and instruments; automatic air controls; and boiler water/feedwater test treatment.

### MACHINIST'S MATE 3 & 2

NRTC

EDITION: 1991

NAVEDTRA NUMBER: 82144

SN: 0503-LP-215-9700 QR: 20

ASSIGNMENTS: 8 POINTS: 16

ERRATA #1 DATED: 9409

SN: 0503-LP-215-9701 QR: 20

ANSWER KEY SN: 0504-LP-775-6300 QR: 1

TRAMAN

EDITION: 1991

NAVEDTRA NUMBER: 12144

SN: 0502-LP-215-9600 QR: 20

Provides information on the following subjects: steam turbines, reduction gears, lubrication, pumps, heat exchangers, air ejectors, engine room operating procedures, engineering administration, steam operated distilling plants, piping, valves, gaskets, packing, refrigeration, air conditioning, compressed air systems, and auxiliary equipment.

### MANAGEMENT FUNDAMENTALS: A GUIDE FOR SENIOR AND MASTER CHIEF PETTY OFFICERS

NRTC

EDITION: 1990

NAVEDTRA NUMBER: 80049

SN: 0503-LP-212-8700 QR: 50

ASSIGNMENTS: 3 POINTS: 4

ANSWER KEY SN: 0504-LP-776-4300 QR: 1

TRAMAN

EDITION: 1990

NAVEDTRA NUMBER: 10049

SN: 0502-LP-212-8600 QR: 50

Consists of a separate text and nonresident training course covering the basics of current management theory. Topics include the following information: introduction to management-planning, organizing, and decision making; controlling; personnel management; administration; leadership and motivation; communication; and programs and policies.

## GENERAL NONRESIDENT TRAINING

### MASTER-AT-ARMS

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 82740

SN: 0503-LP-478-7100 QR: 5

ASSIGNMENTS: 19 POINTS: 29

ERRATA #1 DATED: 9703

SN: 0503-LP-478-7101 QR: 10

ANSWER KEY SN: 0504-LP-776-3100 QR: 1

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12740

SN: 0502-LP-478-6900 QR: 5

Provides coverage in the following areas: rules and regulations; military law; search and seizure; military law of evidence; courts-martial; nonjudicial punishment; controlled substances; small arms; crowd control; physical security; military working dogs; patrol; customs; shipboard duties; investigations; forensics; evidence custody; and administration. The Master-at-Arms TRAMAN is a four-paygrade manual.

### MATHEMATICS, PART I

NRTC

EDITION: 1978

NAVEDTRA NUMBER: 10448-3

SN: 0502-LP-052-2540 QR: 50

ASSIGNMENTS: 11 POINTS: 22

ANSWER KEY SN: 0504-LP-777-2700 QR: 1

### MATHEMATICS, VOL 1

TRAMAN

EDITION: 1985

NAVEDTRA NUMBER: 10069-D1

SN: 0502-LP-050-3460 QR: 50

Provides a review of basic arithmetic and elementary algebra; includes fractions, decimals, percentages, exponents, radicals, logarithms; exercises in factoring polynomials, linear equations, ratio, proportion, variation, complex numbers and quadratic equations; presents brief introduction to plane figures, geometric construction, and trigonometry.

Special Information: High school algebra or its equivalent is considered the minimum academic background for enrollment in this course. Personnel in supervisory positions should inform enrollees that considerable effort and concentration will be required to complete this course.

## GENERAL NONRESIDENT TRAINING

### MATHEMATICS, VOL 2-A

NRTC

EDITION: 1989

NAVEDTRA NUMBER: 80062

SN: 0503-LP-478-9900 QR: 20

ASSIGNMENTS: 4 POINTS: 11

ANSWER KEY SN: 0504-LP-777-2900 QR: 1

TRAMAN

EDITION: 1989

NAVEDTRA NUMBER: 10062

SN: 0502-LP-215-3700 QR: 20

Contains information on the following subjects: definitions, notations, and computations with logarithms; trigonometric ratios, analysis, applications, and aids to computations; trigonometric identities; and vectors and forces. This course is general in nature and is not directed toward any one specific specialty.

Special Information: Successful completion of Mathematics, Part 1 or equivalent classroom courses in the fundamentals of algebra and trigonometry is strongly recommended prior to enrollment.

### MATHEMATICS, VOL 2-B

NRTC

EDITION: 1988

NAVEDTRA NUMBER: 80063

SN: 0503-LP-479-0100 QR: 20

ASSIGNMENTS: 5 POINTS: 12

ANSWER KEY SN: 0504-LP-777-3000 QR: 1

TRAMAN

EDITION: 1988

NAVEDTRA NUMBER: 10063

SN: 0502-LP-215-6700 QR: 20

Contains information on the following subjects: straight lines, conic sections, tangents, normals, slopes; introduction to differential and integral calculus; combinations and permutations; and introduction to probability. This course is general in nature and is not directed toward any specific specialty.

Special Information: Successful completion of Mathematics, Part 1 and Mathematics, Volume 2-A or equivalent classroom courses in the fundamentals of algebra and trigonometry is strongly recommended prior to enrollment.

### MATHEMATICS, PART III

NRTC

EDITION: 1977

NAVEDTRA NUMBER: 10450-A1

SN: 0503-LP-479-0500 QR: 20

ASSIGNMENTS: 5 POINTS: 14

ANSWER KEY SN: 0504-LP-777-2800 QR: 1

### MATHEMATICS, VOL 3

TRAMAN

EDITION: 1986

NAVEDTRA NUMBER: 10073-A1

SN: 0502-LP-050-3655 QR: 20

Contains information on the following subjects: elements of digital computer mathematics-sequence and series, induction and the binomial theorem, statistics, number systems, sets and subsets, Boolean algebra, matrices, and determinants.

Special Information: Successful completion of Mathematics, Part 1 or equivalent classroom courses prior to enrollment is strongly recommended.

### MESS MANAGEMENT SPECIALIST 1 & C

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 82662

SN: 0503-LP-221-8200 QR: 20

ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-776-3000 QR: 1

### MESS MANAGEMENT SPECIALIST

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12662

SN: 0502-LP-221-8100 QR: 20

Covers investigating causes of food spoilage and damage; inspection and date stamping of food items upon receipt; preparation of dummy receipts; preparation of documents for expenditure of food items; preparation of the Food-Preparation Worksheet; menu planning; foodservice administration; and foodservice management.

## GENERAL NONRESIDENT TRAINING

### MESS MANAGEMENT SPECIALIST 3 & 2

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 72662

SN: 0503-LP-478-1600 QR: 20

ASSIGNMENTS: 8 POINTS: 12

ANSWER KEY SN: 0504-LP-775-9800 QR: 1

### MESS MANAGEMENT SPECIALIST

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12662

SN: 0502-LP-221-8100 QR: 20

Covers sanitation; receipt, inspection, expenditure, and storage of food items; accounting; foodservice equipment; food preparation; meat, poultry, and seafood; nutrition and menu planning; breads and desserts; foodservice; quarters afloat and ashore; and field kitchens.

### MILITARY REQUIREMENTS FOR SENIOR AND MASTER CHIEF PETTY OFFICER

NRTC

EDITION: 1991

NAVEDTRA NUMBER: 82048

SN: 0503-LP-217-0800 QR: 25

ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-776-6900 QR: 1

TRAMAN

EDITION: 1991

NAVEDTRA NUMBER: 12048

SN: 0502-LP-217-0700 QR: 25

Provides subject matter related to the military qualifications of all senior and master chief petty officers. Provides information on Department of Defense organization, senior and master chiefs as principal enlisted advisors, organizational responsibility, management process, safety and training, resource management, inspections, directives, reports, and messages.

### MILITARY REQUIREMENTS FOR CHIEF PETTY OFFICER

NRTC

EDITION: 1991

NAVEDTRA NUMBER: 82047

SN: 0503-LP-216-0400 QR: 35

ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-776-6800 QR: 1

TRAMAN

EDITION: 1991

NAVEDTRA NUMBER: 12047

SN: 0502-LP-216-0300 QR: 35

Provides subject matter related to the military qualifications of all chief petty officers. Provides information on naval tradition, military conduct and justice, leadership, management information and training, programs and policies, military requirements, safety and damage control, and security.

### MILITARY REQUIREMENTS FOR PETTY OFFICER FIRST CLASS

NRTC

EDITION: 1991

NAVEDTRA NUMBER: 82046

SN: 0503-LP-216-2300 QR: 100

ASSIGNMENTS: 7 POINTS: 11

ANSWER KEY SN: 0504-LP-776-6700 QR: 1

TRAMAN

EDITION: 1991

NAVEDTRA NUMBER: 12046

SN: 0502-LP-216-2200 QR: 100

Provides subject matter related to the military qualifications of all first class petty officers. Provides information on U.S. naval tradition; leadership and administrative responsibilities; programs and policies; professional responsibilities; military requirements; safety and survival; and damage control.

## GENERAL NONRESIDENT TRAINING

### MILITARY REQUIREMENTS FOR PETTY OFFICER SECOND CLASS

NRTC  
EDITION: 1991  
NAVEDTRA NUMBER: 82045  
SN: 0503-LP-215-7300 QR: 75  
ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-776-6600 QR: 1

#### TRAMAN

EDITION: 1991  
NAVEDTRA NUMBER: 12045  
SN: 0502-LP-215-7200 QR: 75

Provides subject matter related to the military requirements for all petty officers second class. Included are discussions on naval organization; leadership programs and policies; professional development; training; personnel safety; chemical, biological, and radiological defense; damage control; and security requirements.

### MILITARY REQUIREMENTS FOR PETTY OFFICER THIRD CLASS

NRTC  
EDITION: 1991  
NAVEDTRA NUMBER: 82044  
SN: 0503-LP-216-2100 QR: 150  
ASSIGNMENTS: 7 POINTS: 11

ANSWER KEY SN: 0504-LP-776-6500 QR: 1

#### TRAMAN

EDITION: 1991  
NAVEDTRA NUMBER: 12044  
SN: 0502-LP-216-1400 QR: 150

Provides subject matter related to the military qualifications of all petty officers third class. Included are discussions on sea power; leadership and supervision; military conduct and justice; human resources; professional development; military requirements; personnel safety; damage control; chemical, biological, and radiological defense; surface preservation; the ships' 3-M systems; and supply procedures.

### MILITARY REQUIREMENTS, BASIC (BMR)

NRTC  
EDITION: 1992  
NAVEDTRA NUMBER: 82043  
SN: 0503-LP-216-0800 QR: 200  
ASSIGNMENTS: 9 POINTS: 14

ERRATA #1 DATED: 1996  
SN: 0503-LP-216-0801 QR: 200

ANSWER KEY SN: 0504-LP-776-6400 QR: 1

#### TRAMAN

EDITION: 1992  
NAVEDTRA NUMBER: 12043  
SN: 0502-LP-216-0700 QR: 200

ERRATA #1 DATED: 1993  
SN: 0502-LP-216-0701 QR: 200

Provides subject matter related to all nonrated personnel. Provides information on our heritage; naval history; naval organization; customs and courtesies; policies and programs; human resources; naval uniforms; professional development; drill; naval ships and aircraft; safety; seamanship; damage control; chemical, biological, and radiological defense; surface preservation; small arms; survival; first aid and personal hygiene; watch standing and communications; security requirements; and international agreements.

### MINEMAN, VOLUME 1

NRTC  
EDITION: 1994  
NAVEDTRA NUMBER: 82448  
SN: 0503-LP-477-6300 QR: 5  
ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-777-4100 QR: 1

#### TRAMAN

EDITION: 1994  
NAVEDTRA NUMBER: 12448  
SN: 0502-LP-477-6200 QR: 5

Gives an introduction to mine warfare and describes mine warfare-related programs, and operations and readiness.



## GENERAL NONRESIDENT TRAINING

### **MINEMAN, VOLUME 2 (MN 1 & C)**

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 82449

SN: 0503-LP-478-5900 QR: 5

ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-777-4300 QR: 1

### **MINEMAN, VOLUME 2**

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12449

SN: 0502-LP-478-5800 QR: 5

Covers administrative functions and supply procedures as they relate to the Mine Force.

### **MINEMAN, VOLUME 2 (MN 3 & 2)**

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 72449

SN: 0503-LP-479-2500 QR: 5

ASSIGNMENTS: 1 POINTS: 2

ANSWER KEY SN: 0504-LP-777-4200 QR: 1

### **MINEMAN, VOLUME 2**

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12449

SN: 0502-LP-478-5800 QR: 5

Covers administrative functions and supply procedures as they relate to the Mine Force.

### **MINEMAN, VOLUME 3 (MN 1 & C)**

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 82450

SN: 0503-LP-479-4300 QR: 5

ASSIGNMENTS: 1 POINTS: 2

ANSWER KEY SN: 0504-LP-777-4500 QR: 1

### **MINEMAN, VOLUME 3**

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12450

SN: 0502-LP-479-4100 QR: 5

Provides the supervisor with information regarding the mine maintenance system and its reporting requirements. Provides information on the proper handling of mines and explosive materials with regard to quantity-distance requirements.

### **MINEMAN, VOLUME 3 (MN 3 & 2)**

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 72450

SN: 0503-LP-479-4200 QR: 5

ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-777-4400 QR: 1

### **MINEMAN, VOLUME 3**

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12450

SN: 0502-LP-479-4100 QR: 5

Provides the basic overview of the main maintenance system and the reporting requirements associated with mines. Identifies the causes of corrosion and the common types of materials and equipment used to prevent and protect mines against corrosion. Provides information on the handling and storage of mines and explosives, with the use of various types of handling gear.

## GENERAL NONRESIDENT TRAINING

### MINEMAN, VOLUME 4 (MN 3 & 2)

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 82451

SN: 0503-LP-479-4500 QR: 5

ASSIGNMENTS: 3 POINTS: 5

ERRATA #1 DATED: 1996

SN: 0503-LP-479-4501 QR: 5

ANSWER KEY SN: 0504-LP-777-3700 QR: 1

### MINEMAN, VOLUME 4

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12451

SN: 0502-LP-479-4400 QR: 5

Describes the characteristics and operational use of Mines Mk 36, 40, 56, 60, 62, 63, 65, and 67.

Special Information: **WARNING!** These products are classified **CONFIDENTIAL**.

### MINEMAN, VOLUME 5 (MN 3 & 2)

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 82452

SN: 0503-LP-480-1100 QR: 5

ASSIGNMENTS: 1 POINTS: 2

ANSWER KEY SN: 0504-LP-777-4600 QR: 1

### MINEMAN, VOLUME 5

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12452

SN: 0502-LP-480-0900 QR: 5

Provides a basic overview of exercise and training mines, including actuation, laying, handling, shop, hunting, and mechanical sweep mines.

### MOLDER 3 & 2

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82207

SN: 0503-LP-477-3600 QR: 15

ASSIGNMENTS: 15 POINTS: 22

ANSWER KEY SN: 0504-LP-775-7500 QR: 1

### PATTERNMAKER/MOLDER

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12207

SN: 0502-LP-477-3300 QR: 15

Provides information about the operation of foundry operation aboard ships and at shore stations, emphasizing the following areas: installed shop equipment, handtools and power tools, foundry equipment, furnaces, molds and mold construction, coremaking, metals and alloys, casting techniques, and heat treatment of castings. Wood joinery and finishing, patternmaking structural materials, blueprints and layout, math, pattern equipment and construction are also covered.

### NAVAL CONSTRUCTION FORCE/SEABEE 1 & C

NRTC

EDITION: 1995

NAVEDTRA NUMBER: 82543

SN: 0503-LP-479-5100 QR: 20

ASSIGNMENTS: 8 POINTS: 12

ERRATA #2 DATED: 9705

SN: 0503-LP-479-5102 QR: 20

ANSWER KEY SN: 0504-LP-777-6500 QR: 1

TRAMAN

EDITION: 1995

NAVEDTRA NUMBER: 12543

SN: 0502-LP-479-4900 QR: 20

Provides information needed by first class and chief petty officers in the Seabee ratings. Subjects included are: administration; project and construction planning and management; advanced base planning and embarkation; battalion turnover and tool management; NCF camp maintenance; environmental pollution control; contract Quality Assurance; and facilities maintenance management.

# GENERAL NONRESIDENT TRAINING

## NAVAL ORIENTATION

NRTC

EDITION: 1991

NAVEDTRA NUMBER: 82966

SN: 0503-LP-481-2200 QR: 30

ASSIGNMENTS: 12 POINTS: 24

ANSWER KEY SN: 0504-LP-774-8000 QR: 1

TRAMAN

EDITION: 1991

NAVEDTRA NUMBER: 12966

SN: 0502-LP-213-4100 QR: 30

Familiarizes newly commissioned officers and various officer accession program personnel with the rules, customs, and traditions of the Navy.

## NAVAL POSTAL OFFICER

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 82649

SN: 0503-LP-478-0800 QR: 5

ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-776-2500 QR: 1

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12649

SN: 0502-LP-478-0700 QR: 5

Provides those assigned as collateral duty postal officers at commands where postal expertise is limited, with the information needed to manage and when necessary supervise their command's operations.

## NAVAL SAFETY SUPERVISOR

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82971

SN: 0503-LP-477-0600 QR: 5

ASSIGNMENTS: 5 POINTS: 8

ANSWER KEY SN: 0504-LP-775-8800 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12971

SN: 0502-LP-477-0400 QR: 5

Provides information about the history and role of the Department of the Navy Safety Program; safety program promotion and attitudes; mishap causes, prevention, and hazard abatement; mishap investigation fundamentals; Navy Occupational Safety and Health Program fundamentals; shore safety; afloat safety; naval aviation safety; explosives safety; traffic safety; and recreation, athletics, and home safety.

## NAVAL SPACE

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82961

SN: 0503-LP-478-3300 QR: 10

ASSIGNMENTS: 5 POINTS: 8

ANSWER KEY SN: 0504-LP-775-8500 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12961

SN: 0502-LP-217-8600 QR: 10

ERRATA #1 DATED: 8608

SN: 0502-LP-217-8601 QR: 10

Covers the historical developments of the Naval Space Program and the current civil and military space organizations. It contains chapters on space environment, orbital mechanics, launch vehicle operations and processing, space systems engineering and operations, and the tactical use of space. It also includes a chapter on the space program of the former Soviet Union.

# GENERAL NONRESIDENT TRAINING

## NAVY ADMIRALTY LAW PRACTICE

NRTC

EDITION: 1989

NAVEDTRA NUMBER: 10725-B

SN: 0503-LP-481-2100 QR: 5

ASSIGNMENTS: 2 POINTS: 4

ANSWER KEY SN: 0504-LP-777-5500 QR: 1

Provides a practical guide to the action necessary to protect the interests of the government when an officer is confronted with, or involved in, a situation out of which an admiralty claim may arise. Also explains, in brief, the viewpoint, practices, procedures, and general responsibilities of the Navy in admiralty matters.

Special Information: The texts for this course, *Manual of Judge Advocate General*, JAGINST 5800.7B, Chapter 12 and Appendix A-12a, with change 7 incorporated, and *Admiralty Law and Its Application in Navy Claims Practice: A Primer* by LCDR Kevin P. McMahon, JAGC, USN, are included in the course.

## NAVY COUNSELOR (C) 1 & C, PART 1

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 13068

SN: 0503-LP-476-8800 QR: 10

ASSIGNMENTS: 3 POINTS: 4

ANSWER KEY SN: 0504-LP-775-9200 QR: 1

Covers the role and scope of the retention team and the duties and responsibilities of team members. Provides a broad review of the following subjects: counseling techniques, enlisted and officer counseling, career reenlistment objective (CREO), incentive programs, education programs, commissioning programs, Naval Reserve programs, Uniformed Service Health Benefits Program (USHBP), survivors benefits, veterans benefits, family counseling, and Fleet Reserve and retirement.

Special Information: The text for this NRTC, *Retention Team Manual* (NAVPERS 15878H), is NOT supplied with the course and must be obtained by the student.

## NAVY COUNSELOR (R) 1 & C

NRTC

EDITION: 1995

NAVEDTRA NUMBER: 82620

SN: 0503-LP-480-4100 QR: 10

ASSIGNMENTS: 7 POINTS: 11

ANSWER KEY SN: 0504-LP-776-1600 QR: 1

TRAMAN

EDITION: 1995

NAVEDTRA NUMBER: 12620

SN: 0502-LP-480-3900 QR: 10

Provides the student with information on: the Career Recruiting Force; training, recruiting personnel management; Navy recruiting station operations and administration; marketing; recruiting; public affairs; recruiting management and analysis systems; and visits, inspections, and meetings.

## NAVY CUSTOMER SERVICE MANUAL

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82972

SN: 0503-LP-477-3800 QR: 15

ASSIGNMENTS: 1 POINTS: 2

ANSWER KEY SN: 0504-LP-776-3200 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12972

SN: 0502-LP-477-3700 QR: 15

Presents the importance of proper attitude and its effect on everyday performance and stresses the need for developing positive attitudes in interpersonal relationships.

# GENERAL NONRESIDENT TRAINING

## NAVY INSTRUCTIONAL THEORY

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 834

SN: 0503-LP-481-2400 QR: 15

ASSIGNMENT: 5 POINTS: 8

ERRATA #1 DATED: 9509

SN: 0503-LP-481-2401

ANSWER KEY SN: 0504-LP-774-9100

## NAVY INSTRUCTOR MANUAL

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: 134

SN: 0502-LP-219-8800 QR: 15

ERRATA #1 DATED: 9509

SN: 0502-LP-219-8801

Provides knowledge factors and background information on the theory and techniques of Navy classroom instruction. This course is a prerequisite for Naval Reservists in preparation for the two week group-paced instructor course. The nonresident training course covers Navy training, the Navy instructor, motivation, principles of learning, effective communications, instructional methods, learning objectives, testing, course materials, and instructor evaluation.

## Navy Electricity and Electronics Training Series (NEETS)

### NEETS, MODULE 1--INTRODUCTION TO MATTER, ENERGY, AND DIRECT CURRENT

NRTC

EDITION: 1988

NAVEDTRA NUMBER: 173-01-00-88

SN: 0507-LP-214-1300 QR: 50

ASSIGNMENTS: 3 POINTS: 6

ANSWER KEY SN: 0504-LP-775-3400 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: B72-01-00-92

SN: 0507-LP-217-7300 QR: 50

Presents information on matter make up and behavior of matter, magnetism, methods of producing electricity, and direct current problem solving. Topic 1 presents information on matter, energy, electricity, and symbology. Topic 2 discusses batteries. Included are discussions on the battery cell, chemical processes, polarization, uses, and safety precautions. Topic 3 introduces direct current circuits and explains many of the formulas that are used routinely in electricity.

## GENERAL NONRESIDENT TRAINING

### NEETS, MODULE 2--INTRODUCTION TO ALTERNATING CURRENT AND TRANSFORMERS

TRAMAN/NRTC

EDITION: 1991

NAVEDTRA NUMBER: 172-02-00-91

SN: 0507-LP-216-2900 QR: 50

ASSIGNMENTS: 4 POINTS: 10

ANSWER KEY SN: 0504-LP-775-1600 QR: 1

Introduces alternating current theory and power supplies. Topic 1 discusses the differences between alternating and direct current, magnetism, generation of alternating current, and characteristics of sine waves. Topic 2 introduces inductance characteristics, such as electromotive force, self inductance, and mutual inductance. Topic 3 introduces capacitance. Discussions are presented on the electrostatic field, capacitor characteristics, and series and parallel capacitive circuits. Topic 4 presents information on inductive and capacitive reactance, power in reactive circuits, and power factors. Topic 5 describes transformer characteristics.

### NEETS, MODULE 3--INTRODUCTION TO CIRCUIT PROTECTION, CONTROL, AND MEASUREMENT

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 172-03-00-93

SN: 0507-LP-477-6800 QR: 50

ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-775-1700 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: B72-03-00-93

SN: 0507-LP-477-6700 QR: 50

Presents information on circuit measurements, circuit protection devices, and circuit control devices. Topic 1 discusses basic ohmmeters, ammeters, voltmeters, wattmeters, and frequency meters. Topic 2 discusses circuit protection devices, such as fuses and circuit breakers. Topic 3 discusses switches, solenoids, and relays.

### NEETS, MODULE 4--INTRODUCTION TO ELECTRICAL CONDUCTORS, WIRING TECHNIQUES AND SCHEMATIC READING

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 172-04-00-92

SN: 0507-LP-217-8400 QR: 50

ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-775-1800 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: B72-04-00-92

SN: 0507-LP-217-8300 QR: 50

ERRATA #1 DATED: 9505

SN: 0507-LP-217-8301 QR: 50

Introduces electrical conductors, wiring techniques, and schematics. Topic 1 covers wire characteristics and insulation. Topic 2 covers conductor wiring techniques, including splicing, soldering, and lacing. Topic 3 covers schematic reading, marking systems, and some basic safety practices and precautions.

### NEETS, MODULE 5--INTRODUCTION TO GENERATORS AND MOTORS

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 172-05-00-94

SN: 0507-LP-478-1500 QR: 50

ASSIGNMENTS: 1 POINTS: 2

ANSWER KEY SN: 0504-LP-775-1900 QR: 1

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: B72-05-00-94

SN: 0507-LP-478-1400 QR: 50

Covers basic construction and theory of operation of AC & DC generators and motors.

## GENERAL NONRESIDENT TRAINING

### NEETS, MODULE 6--INTRODUCTION TO ELECTRONIC EMISSION, TUBES, AND POWER SUPPLIES

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 172-06-00-92

SN: 0507-LP-217-8100 QR: 50

ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-775-2000 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: B72-06-00-92

SN: 0507-LP-217-7900 QR: 50

ERRATA #1 DATED: 9312

SN: 0507-LP-217-7901 QR: 50

Presents an introduction to the theory of electronic emission and electron tubes. Topic 1 covers the construction, function, and theory of operation of the diode, triode, tetrode, and pentode. Topic 2 presents special-purpose tubes. The basic vacuum-tube power supply, including voltage and current regulation, and the methods used to isolate faulty components are covered in Topic 3.

### NEETS, MODULE 7--INTRODUCTION TO SOLID-STATE DEVICES AND POWER SUPPLIES

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 172-07-00-92

SN: 0507-LP-218-7600 QR: 50

ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-775-2100 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: B72-07-00-92

SN: 0507-LP-218-7400 QR: 50

Deals with solid-state devices and power supplies on a basic level. It presents a basic discussion of electron and hole flow in semiconductor devices and explains the construction, function, and theory of operation of the transistor. Also covered are the purpose modular circuitry and the advantages of integrated circuits over conventional transistor circuits, and the construction and use of the other solid-state devices such as the Zener diode, tunnel diode, varactor, silicon-controlled rectifier, triac, unijunction transistor, and the more commonly used opto-electric devices. Fundamentals of solid-state power supplies are also covered.

## GENERAL NONRESIDENT TRAINING

### NEETS, MODULE 8--INTRODUCTION TO AMPLIFIERS

NRTC

EDITION: 1987

NAVEDTRA NUMBER: 173-08-00-87

SN: 0507-LP-173-0805 QR: 50

ASSIGNMENTS: 2 POINTS: 4

ERRATA #1 DATED: 9501

SN: 0507-LP-173-0806 QR: 50

ANSWER KEY SN: 0504-LP-775-3500 QR: 1

TRAMAN

EDITION: 1982

NAVEDTRA NUMBER: 172-08-00-82

SN: 0507-LP-172-0800 QR: 50

ERRATA #1 DATED: 9501

SN: 0507-LP-172-0801 QR: 50

Presents an introduction to what amplification is and how different types and classes of amplifiers affect amplification. Topic 1 discusses audio amplifiers. Topic 2 discusses video amplifiers and radio frequency amplifiers. Topic 3 presents differential, operational, and magnetic amplifiers. Factors which affect how an amplifier performs, such as impedance, feedback frequency response, and coupling, are also explained.

### NEETS, MODULE 9--INTRODUCTION TO WAVE-GENERATION AND WAVE-SHAPING CIRCUITS

NRTC

EDITION: 1985

NAVEDTRA NUMBER: 173-09-00-85

SN: 0507-LP-173-0905 QR: 50

ASSIGNMENTS: 4 POINTS: 6

ERRATA #1 DATED: 9411

SN: 0507-LP-173-0906 QR: 50

ANSWER KEY SN: 0504-LP-775-3600 QR: 1

TRAMAN

EDITION: 1983

NAVEDTRA NUMBER: 172-09-00-83

SN: 0507-LP-172-0900 QR: 50

ERRATA #1 DATED: 9411

SN: 0507-LP-172-0901 QR: 50

Introduces electronic wave-generating and wave-shaping circuits. Topic 1 discusses tuned circuits, resonance, resonant circuits, filter circuits, bandwidth, and special safety precautions to be observed when repairing tuned circuits. Topic 2 presents fundamental oscillator theory, including circuit configuration and frequency and amplitude stability of circuits. Topic 3 presents various waveforms, and waveform-generating circuits such as multivibrators, blocking oscillators, and time-based generators. Topic 4 describes limiters, clippers, differentiators, integrators, and counters.



## GENERAL NONRESIDENT TRAINING

### NEETS, MODULE 10--INTRODUCTION TO WAVE PROPAGATION, TRANSMISSION LINES, AND ANTENNAS

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 172-10-00-93

SN: 0507-LP-220-6800 QR: 50

ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-775-2200 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: B72-10-00-93

SN: 0507-LP-220-4700 QR: 50

Introduces wave propagation, transmission lines, and antenna theory. Topic 1 discusses wave motion, sound-wave terminology, light waves, properties of electromagnetic waves and the electromagnetic spectrum. Topic 2 discusses radio-wave propagation, including components of radio waves, electromagnetic fields, and effects of the Earth's atmosphere and terrain on radio waves. Topic 3 discusses transmission line theory, including terminology, types of lines, losses, length of lines, and discussions on characteristic impedance, electromagnetic fields, line reflections, standing waves, and standing-wave ratio. Topic 4 discusses several antennas, including the Hertz, Marconi, several arrays, and special antennas.

### NEETS, MODULE 11--MICROWAVE PRINCIPLES

NRTC

EDITION: 1985

NAVEDTRA NUMBER: 173-11-00-85

SN: 0507-LP-173-1105 QR: 50

ASSIGNMENTS: 2 POINTS: 6

ERRATA #1 DATED: 9501

SN: 0507-LP-173-1106 QR: 50

ANSWER KEY SN: 0504-LP-775-3700 QR: 1

TRAMAN

EDITION: 1987

NAVEDTRA NUMBER: 172-11-00-87

SN: 0507-LP-172-1105 QR: 50

ERRATA #1 DATED: 9501

SN: 0507-LP-172-1106 QR: 50

Presents an introduction to microwave principles. Topic 1 introduces waveguides in terms of theory and application; various waveguide devices are explained. Topic 2 describes microwave components and circuits. Microwave components, tube principles and types, the decibel measurement system, and solid-state microwave devices are covered. Topic 3 describes microwave antennas. Antenna characteristics, reflector antennas, horn radiators, lens antennas, arrays, and frequency sensitive antennas are explained.

# GENERAL NONRESIDENT TRAINING

## NEETS, MODULE 12--MODULATION PRINCIPLES

TRAMAN/NRTC

EDITION: 1983

NAVEDTRA NUMBER: 172-12-00-83

SN: 0507-LP-172-1200 QR: 50

ASSIGNMENTS: 3 POINTS: 7

ERRATA #1 DATED: 9502

SN: 0507-LP-172-1201 QR: 50

ANSWER KEY SN: 0504-LP-775-2300 QR: 1

Presents information on the fundamental concepts of amplitude modulation, angle and pulse modulation, and demodulation. Topic 1 describes the theory of sine-wave generation and heterodyning. Also described are continuous-wave and amplitude-modulated systems. Topic 2 describes frequency, phase, and pulse modulation. Amplitude-, time-, duration-, position-, frequency-, and code-pulse modulation are explained. Topic 3 describes demodulation theory for continuous-wave, and amplitude-, frequency-, phase-, and pulse-modulated demodulators.

## NEETS, MODULE 13--INTRODUCTION TO NUMBER SYSTEMS AND LOGIC CIRCUITS

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 172-13-00-94

SN: 0507-LP-479-5500 QR: 50

ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-775-2400 QR: 1

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: B72-13-00-94

SN: 0507-LP-479-5400 QR: 50

Presents the fundamental concepts of number systems and logic circuits that pertain to digital equipment. Topic 1 describes unit, number, base/radix, positional notation, most- and least-significant digit, carry and borrow principles, and the decimal-, binary-, octal-, hexadecimal-, and binary-coded decimal-number systems. Techniques for converting from one system to another are covered. Topic 2 includes computer logic; AND, OR, NAND, and NOR gates; inverters; and Boolean algebra. Topic 3 presents exclusive OR and exclusive NOR circuits, adders, flip-flops, clocks, counters, registers, and logic families.

## NEETS, MODULE 14--INTRODUCTION TO MICROELECTRONICS

TRAMAN/NRTC

EDITION: 1984

NAVEDTRA NUMBER: 172-14-00-84

SN: 0507-LP-172-1400 QR: 50

ASSIGNMENTS: 2 POINTS: 4

ANSWER KEY SN: 0504-LP-775-2500 QR: 1

Presents information on the fundamental concepts of microelectronics, solid-state devices, and integrated circuits. Fabrication, packaging techniques, and equivalent circuits are discussed. Topic 2 discusses the Navy's 2M program including certification requirements, levels of maintenance, repair stations, 2M facilities, high-reliability soldering techniques, and test equipment. Topic 3 covers removal/replacement/repair of miniature and microminiature components, and safety precautions.

## NEETS, MODULE 15 -- PRINCIPLES OF SYNCHROS, SERVOS, AND GYROS

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 172-15-00-93

SN: 0507-LP-476-6100 QR: 50

ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-775-2600 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: B72-15-00-93

SN: 0507-LP-476-5900 QR: 50

ERRATA #1 DATED: 9311

SN: 0507-LP-476-5901 QR: 50

Presents general information on synchros, servos, gyros, and related devices. Topic 1 presents the theory of operations and alignment procedures for synchros. Topic 2 discusses servo systems, schematic and block diagrams, circuit component characteristics, and the components and data flow of a typical system. Topic 3 discusses characteristics, properties, components and other factors concerning the gyroscope. Topic 4 discusses related devices and compares standard synchro system connections with IC synchro connections, explains step-transmitter and receiver operation, and compares a resolver to a transformer.

# GENERAL NONRESIDENT TRAINING

## NEETS, MODULE 16--INTRODUCTION TO TEST EQUIPMENT

NRTC

EDITION: 1996

NAVEDTRA NUMBER: 172-16-00-96

SN: 0507-LP-481-2800 QR: 50

ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-777-8800 QR: 1

TRAMAN

EDITION: 1996

NAVEDTRA NUMBER: B72-16-00-96

SN: 0507-LP-481-2700 QR: 50

Presents general information on the fundamental concepts of test equipment. Topic 1 covers test equipment administration and use, focusing on Navy equipment-related programs and basic procedures. Topic 2 describes various types of measurements. Topic 3 discusses the use of basic meters. Topic 4 describes operating procedures for common Navy test equipment. Topic 5 covers special application test equipment used in the electronics field. Topic 6 explains the purpose and operation of the oscilloscope and spectrum analyzer.

## NEETS, MODULE 17--RADIO-FREQUENCY COMMUNICATIONS PRINCIPLES

TRAMAN/NRTC

EDITION: 1984

NAVEDTRA NUMBER: 172-17-00-84

SN: 0507-LP-172-1700 QR: 50

ASSIGNMENTS: 3 POINTS: 7

ANSWER KEY SN: 0504-LP-775-2800 QR: 1

Presents general information on the fundamental concepts of radio-frequency communications. Topic 1 introduces the types of electrical telecommunications, their modes of operations, and Navy frequency band usage. Topic 2 discusses transmitters, receivers, and their control circuitry. Topic 3 describes equipment interfacing, teletypewriter and facsimile operations, security, quality monitoring, and safety. Topic 4 addresses a basic satellite communications system, equipment characteristics, theory of operation, and applications, both present and future. Topic 5 covers the lower frequency bands usage, microwave systems, the Naval Tactical Data System, portable equipment, and laser theory and applications.

## NEETS, MODULE 18--RADAR PRINCIPLES

TRAMAN/NRTC

EDITION: 1984

NAVEDTRA NUMBER: 172-18-00-84

SN: 0507-LP-172-1800 QR: 50

ASSIGNMENTS: 3 POINTS: 7

ANSWER KEY SN: 0504-LP-775-2900 QR: 1

Presents general information on radar theory, equipment, and maintenance. Topic 1 introduces basic radar concepts, principles of operation, transmission methods, and common types of radar systems. Topic 2 discusses major units of a radar including synchronizers, transmitters, duplexers, and receivers. Topic 3 addresses radar indicators and antennas. Topic 4 covers transmitter and receiver performance checks, radar support systems, and safety considerations peculiar to radar operation.

## NEETS, MODULE 19--THE TECHNICIAN'S HANDBOOK SP

EDITION: 1992

NAVEDTRA NUMBER: B72-19-00-92

SN: 0507-LP-218-5600 QR: 50

Provides the technician who works in the electrical and electronics fields a ready reference manual that will be of assistance during everyday work. It begins with information on mishap prevention and first aid, then covers other information useful to the technician such as commonly used formulas, data tables, general maintenance hints, and a listing of often used publications and documents.

## NEETS, MODULE 20--MASTER GLOSSARY AND INDEX SP

EDITION: 1985

NAVEDTRA NUMBER: 172-20-00-85

SN: 0507-LP-172-2000 QR: 50

Provides a ready reference source for the NEETS student. It begins with an alphabetized master glossary of the terms used throughout the NEETS. The second half of the module provides an alphabetized master index of subjects, terms, headings, and emphasized areas found throughout the NEETS. The listing is cross-indexed and broken-down to topic and page.

## GENERAL NONRESIDENT TRAINING

### NEETS, MODULE 21--TEST METHODS AND PRACTICES

NRTC

EDITION: 1987

NAVEDTRA NUMBER: 172-21-00-87

SN: 0507-LP-172-2105 QR: 50

ASSIGNMENTS: 3 POINTS: 9

ERRATA #1 DATED: 9511

SN: 0507-LP-172-2106 QR: 50

ANSWER KEY SN: 0504-LP-775-3000 QR: 1

TRAMAN

EDITION: 1987

NAVEDTRA NUMBER: B72-21-00-87

SN: 0507-LP-172-2100 QR: 50

ERRATA #1 DATED: 9511

SN: 0507-LP-172-2101

Presents information on the fundamental concepts of test methods and practices. It is written with the junior practicing technician in mind and based on Electronics Installation and Maintenance Handbook (EIMB), TEST METHODS AND PRACTICES. There are five topics: "Basic Measurements," "Component Testing," "Quantitative Measurements," "Qualitative Measurements," and "Waveform Interpretation."

### NEETS, MODULE 22--INTRODUCTION TO DIGITAL COMPUTERS

NRTC

EDITION: 1988

NAVEDTRA NUMBER: 172-22-00-88

SN: 0507-LP-215-1900 QR: 50

ASSIGNMENTS: 4 POINTS: 4

ANSWER KEY SN: 0504-LP-775-3100 QR: 1

TRAMAN

EDITION: 1988

NAVEDTRA NUMBER: B72-22-00-88

SN: 0507-LP-214-9600 QR: 50

Introduces fundamental concepts of digital computers. Topic 1 discusses the history, classifications, and operational concepts of digital computers. Topic 2 presents information on hardware: central processing unit, computer storage, and input/output devices. Topic 3 covers software; operating systems, utility programs, programming, and packaged software. Topic 4 covers data representation, computer coding systems, data storage concepts, and networks.

# GENERAL NONRESIDENT TRAINING

## NEETS, MODULE 23--MAGNETIC RECORDING

NRTC

EDITION: 1991

NAVEDTRA NUMBER: 172-23-00-91

SN: 0507-LP-215-8800 QR: 50

ASSIGNMENTS: 2 POINTS: 2

ANSWER KEY SN: 0504-LP-775-3200 QR: 1

TRAMAN

EDITION: 1991

NAVEDTRA NUMBER: B72-23-00-91

SN: 0507-LP-215-7900 QR: 50

Introduces fundamental concepts of recording on magnetic tape and disks. Topic 1 states the prerequisites for magnetic recording and describes magnetic recording heads. Topic 2 describes types of magnetic tape, types of tape errors, causes of tape failure, methods of erasing tape, and procedures for handling tape. Topic 3 describes tape recorder heads and preventive maintenance requirements. Topic 4 describes tape transport systems, tape reeling systems, capstan speed control methods, and cleaning procedures. Topic 5 describes the function and main parts of a tape recorder's record and reproduce electronics. Topic 6 describes the seven most common magnetic tape recording specifications. Topic 7 describes the characteristics of digital magnetic tape recording. Topic 8 describes how floppy and hard disks are constructed, how data is recorded on them, and how they are handled and erased.

## NEETS, MODULE 24--INTRODUCTION TO FIBER OPTICS

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 172-24-00-92

SN: 0507-LP-218-0200 QR: 50

ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-775-3300 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: B72-24-00-92

SN: 0507-LP-218-0100 QR: 50

Presents general information on fiber optics and optical fibers. It encompasses the background on fiber optics; fiber optic concepts; optical fibers and cables; optical splices, connectors, and couplers; fiber optic measurement techniques; optical sources and fiber optic transmitters; optical detectors and fiber-optic receivers; and fiber optic systems.

## OPERATIONS SPECIALIST 1 & C

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82126

SN: 0503-LP-476-6300 QR: 5

ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-774-9000 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12126

SN: 0502-LP-476-6200 QR: 5

Covers information and CIC procedures for personnel performing duties as Operations Specialist 1st and Chief. The CIC functions include Organization and Procedures, Navigation and Rules of the Road, Surface Operations, Amphibious Warfare, NGFS, ASW, Communications, Operational Reports, EW-EMCON, Safety and Casualty Procedures, Training, and Security and Emergency Destruction.

Special Information: **WARNING!** These products are classified NATO CONFIDENTIAL.

## GENERAL NONRESIDENT TRAINING

### OPERATIONS SPECIALIST 2

NRTC

EDITION: 1990

NAVEDTRA NUMBER: 80106

SN: 0503-LP-212-9100 QR: 10

ASSIGNMENTS: 8 POINTS: 12

ERRATA #1 DATED: 9404

SN: 0503-LP-212-9101 QR: 10

ANSWER KEY SN: 0504-LP-774-8900 QR: 1

TRAMAN

EDITION: 1990

NAVEDTRA NUMBER: 10106

SN: 0502-LP-212-8900 QR: 10

Prepares the prospective OS2 for advancement in rate. Upon completing this NRTC, the student will have demonstrated a knowledge of the subject matter by answering questions on the following: radar fundamentals, scope interpretation, electronic warfare, tactical procedures, antiair warfare, antisubmarine warfare, antisurface warfare, naval gunfire support, and tactical data systems.

Special Information: **WARNING!** These products are classified CONFIDENTIAL.

### OPERATIONS SPECIALIST 3

NRTC

EDITION: 1988

NAVEDTRA NUMBER: 80105

SN: 0503-LP-500-0050 QR: 10

ASSIGNMENTS: 9 POINTS: 18

ERRATA #1 DATED: 9404

SN: 0503-LP-500-0051 QR: 10

ANSWER KEY SN: 0504-LP-774-8800 QR: 1

TRAMAN

EDITION: 1988

NAVEDTRA NUMBER: 10105

SN: 0502-LP-050-5200 QR: 10

Prepares the prospective OS3 for advancement in rate. Upon completing this NRTC the student will have demonstrated knowledge of the subject matter by answering questions on the following: missions and functions of CIC, internal communications, external communications, logs, records, publications, surveillance radars, safety, radar display equipment, identification equipment, charts, grids, radar navigation, dead-reckoning systems, plotting, and maneuvering board.

Special Information: **WARNING!** These products are classified CONFIDENTIAL.

### OPTICALMAN 1 & C

NRTC

EDITION: 1991

NAVEDTRA NUMBER: 82217

SN: 0503-LP-214-5300 QR: 5

ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-775-7600 QR: 1

TRAMAN

EDITION: 1991

NAVEDTRA NUMBER: 12217

SN: 0502-LP-214-5200 QR: 5

Covers administration and supervision of an optical ship; quality assurance procedures; optical alignment theory, equipment and procedures; overhaul work packages; optical calibration publications and records; submarine periscopes, types, configurations, systems maintenance, and removal and reassembly procedures.

## GENERAL NONRESIDENT TRAINING

### OPTICALMAN 2

NRTC  
EDITION: 1990  
NAVEDTRA NUMBER: 80215-A  
SN: 0503-LP-214-0800 QR: 10  
ASSIGNMENTS: 5 POINTS: 12

ANSWER KEY SN: 0504-LP-775-5000 QR: 1

### OPTICALMAN 3 & 2

TRAMAN  
EDITION: 1989  
NAVEDTRA NUMBER: 10215  
SN: 0502-LP-218-8200 QR: 10

Provides follow-on knowledge to the Opticalman 3 NRTC in the theory and design of optical equipment. It also provides a follow-on knowledge concerning the overhaul, repair, and calibration procedures associated with telescopes, binoculars, navigation instruments, gunsights, rangefinders, periscopes, and night-vision sights.

### OPTICALMAN 3

NRTC  
EDITION: 1990  
NAVEDTRA NUMBER: 70215-A  
SN: 0503-LP-214-0700 QR: 10  
ASSIGNMENTS: 9 POINTS: 12

ANSWER KEY SN: 0504-LP-775-4100 QR: 1

### OPTICALMAN 3 & 2

TRAMAN  
EDITION: 1989  
NAVEDTRA NUMBER: 10215  
SN: 0502-LP-218-8200 QR: 10

Provides a basic knowledge of the Opticalman rating and of the theory and design features associated with optical equipment. It also provides a basic understanding of the overhaul, repair, and calibration procedures associated with telescopes, binoculars, navigation instruments, gunsights, rangefinders, periscopes, and night-vision sights.

### PATTERNMAKER/MOLDER 1 & C

NRTC  
EDITION: 1993  
NAVEDTRA NUMBER: 62207  
SN: 0503-LP-477-3400 QR: 15  
ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-775-3900 QR: 1

### PATTERNMAKER/MOLDER

TRAMAN  
EDITION: 1993  
NAVEDTRA NUMBER: 12207  
SN: 0502-LP-477-3300 QR: 15

Provides the supervisor information on the operation of pattern shop and foundry operation aboard ships and at shore stations. Coverage includes installed shop equipment and tools usage; wood joinery and finishing; patternmaking to include wood joinery and finishing and structural materials; blueprints and layout; pattern equipment and construction, foundry equipment; molds and mold construction, including cores; metals and alloys; casting techniques and heat treatment of castings.

### PATTERNMAKER 3 & 2

NRTC  
EDITION: 1993  
NAVEDTRA NUMBER: 72207  
SN: 0503-LP-477-3500 QR: 15  
ASSIGNMENTS: 12 POINTS: 22

ANSWER KEY SN: 0504-LP-775-4600 QR: 1

### PATTERNMAKER/MOLDER

TRAMAN  
EDITION: 1993  
NAVEDTRA NUMBER: 12207  
SN: 0502-LP-477-3300 QR: 15

Provides information about the operation of pattern shop aboard ships and at shore stations, emphasizing the following areas: installed shop equipment, handtools and power tools, wood joinery and finishing, patternmaking structural materials, blueprints and layout, math, pattern equipment and construction. Foundry equipment, furnaces, molds and mold construction, coremaking, metals and alloys, casting techniques, and heat treatment of castings are also covered.

## GENERAL NONRESIDENT TRAINING

### PERSONNELMAN 1 & C

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 82606

SN: 0503-LP-217-8800 QR: 20

ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-776-2100 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: 12606

SN: 0502-LP-217-8700 QR: 20

Covers office occupations and management; counseling service members; tuition assistance; enlisted advancement system; personnel casualty reports; manpower management; morale services; conferences and ceremonies.

### PERSONNELMAN 3 & 2

NRTC

EDITION: 1995

NAVEDTRA NUMBER: 82604

SN: 0503-LP-479-7700 QR: 25

ASSIGNMENTS: 15 POINTS: 23

ANSWER KEY SN: 0504-LP-777-8900 QR: 1

TRAMAN

EDITION: 1995

NAVEDTRA NUMBER: 12604

SN: 0502-LP-479-7600 QR: 25

Acquaints the trainee with the various aspects of the Personnelman rating, such as office arrangement, Personnel Support Activities and Detachments, Enlisted Ratings, Enlisted and Officer Service Records, the Enlisted Distribution Report, Officer Distribution Control Report, Diary Message Reporting System, Counseling Service Members, Advancement, Education, Training, Commissioning Programs, Transfers, Receipts, Overseas Assignments, Naval Reserve Program, Reenlistment Incentive programs, Separations, Leave Procedures, and Electronic Data Processing.

### PETTY OFFICER INDOCTRINATION COURSE, INSTRUCTOR'S GUIDE

SP

EDITION: 1993

NAVEDTRA NUMBER: 38201

SN: 0502-LP-220-7400 QR: 10

Designed as part of an on board training package in support of the Navy Leader Development Program to assist newly appointed petty officers third class in preparing for their new roles. The guide for the instructor includes all material covered in the Student's Journal in outline form plus suggested instructor activities and instructional notes.

### PETTY OFFICER INDOCTRINATION COURSE, STUDENT'S JOURNAL

SP

EDITION: 1993

NAVEDTRA NUMBER: 38200

SN: 0502-LP-220-7300 QR: 150

Designed as part of an on board training package in support of the Navy Leader Development Program to assist newly appointed petty officers third class in preparing for their new roles. The journal is a narrative text covering nine subject areas: Roles and Responsibilities of a Petty Officer, Developing Leadership and Management Skills, Basic Needs and Human Behavior, Communicating with Others, Standards in the Navy, Counseling, Discipline, Military Justice and the Petty Officer, Pride, Professionalism, and Personal Excellence.



## GENERAL NONRESIDENT TRAINING

### PHOTOGRAPHY (ADVANCED)

NRTC

EDITION: 1995

NAVEDTRA NUMBER: 82701

SN: 0503-LP-479-2900 QR: 5

ASSIGNMENTS: 5 POINTS: 9

ANSWER KEY SN: 0504-LP-777-6000 QR: 1

### PHOTOGRAPHY (ADVANCED)

TRAMAN

EDITION: 1995

NAVEDTRA NUMBER: 12701

SN: 0502-LP-479-2800 QR: 5

Provides information and advanced techniques involved in Navy photography. It includes basic photojournalism; photographic quality assurance; electronic imaging; aerial photography; and supply and logistics. The silver recovery program and basic operator troubleshooting are also addressed.

### PHOTOGRAPHY (BASIC)

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82700

SN: 0503-LP-219-0900 QR: 5

ASSIGNMENTS: 10 POINTS: 15

ANSWER KEY SN: 0504-LP-776-8700 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12700

SN: 0502-LP-219-0800 QR: 5

Provides the basic information and techniques involved in Navy photography. It includes theory of light and optical principles; light sensitive materials; photographic filters; still cameras and controls; basic photographic techniques; photographic assignments; portraiture; copying; chemical mixing; image processing and control; black-and-white printing; color printing; motion media; and job control and photographic finishing.

### POSTAL CLERK 1 & C

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82602

SN: 0503-LP-219-3300 QR: 5

ASSIGNMENTS: 9 POINTS: 14

ANSWER KEY SN: 0504-LP-776-2000 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12602

SN: 0502-LP-219-3100 QR: 5

Provides a general knowledge of the following subject areas: general postal administration; security; postal supplies and equipment; financial administration; managing postal meter operations; customer services, information, complaints, and inquiries; mail handling reports, inspections, and training, and the official mail management program.

### POSTAL CLERK 2

NRTC

EDITION: 1988

NAVEDTRA NUMBER: 80222

SN: 0503-LP-500-1220 QR: 15

ASSIGNMENTS: 4 POINTS: 3

ERRATA #2 DATED: 9312

SN: 0503-LP-500-1222 QR: 15

ANSWER KEY SN: 0504-LP-776-0300 QR: 1

TRAMAN

EDITION: 1988

NAVEDTRA NUMBER: 10222

SN: 0502-LP-051-1100 QR: 15

Covers the Military Postal Service, incoming mail procedures, mail routing, and post office management.

## GENERAL NONRESIDENT TRAINING

### POSTAL CLERK 3

NRTC

EDITION: 1988

NAVEDTRA NUMBER: 80223

SN: 0503-LP-500-1230 QR: 15

ASSIGNMENTS: 16 POINTS: 16

ERRATA #4 DATED: 9308

SN: 0503-LP-500-1233 QR: 15

ANSWER KEY SN: 0504-LP-776-0400 QR: 1

### TRAMAN

EDITION: 1988

NAVEDTRA NUMBER: 10223

SN: 0502-LP-051-1120 QR: 15

Covers the Military Postal Service, mail packaging and acceptance, domestic mail rates and classifications, special services, international mail, money orders, fixed credit accounts and postage meter machines, outgoing mail, incoming mail, transportation of military mail, mail directory service, registered mail, audits, inspections, reports, and records, claims and inquiries, postal supplies and customs.

### PUBLIC AFFAIRS POLICY AND REGULATIONS

NRTC

EDITION: 1991

NAVEDTRA NUMBER: 13086

SN: 0503-LP-479-9500 QR: 5

ASSIGNMENTS: 9 POINTS: 20

ERRATA #1 DATED: 1992

SN: 0503-LP-479-9501 QR: 5

ANSWER KEY SN: 0504-LP-776-3800 QR: 1

Covers the following subject matter: public affairs objectives, principles, organization and authority; public affairs functional and policy review; public affairs resource management; the Privacy and Freedom of Information Acts; and contingencies.

Special Information: The text for this course, *Department of the Navy Public Affairs Policy and Regulations*, SECNAVINST 5720.44A, is NOT supplied and must be obtained by the student.

### QUARTERMASTER 1 & C

NRTC

EDITION: 1995

NAVEDTRA NUMBER: 82120

SN: 0503-LP-479-6700 QR: 20

ASSIGNMENTS: 6 POINTS: 9

ERRATA #1 DATED: 9703

SN: 0503-LP-479-6701 QR: 20

ANSWER KEY SN: 0504-LP-777-5900 QR: 1

### QUARTERMASTER

TRAMAN

EDITION: 1995

NAVEDTRA NUMBER: 12120

SN: 0502-LP-479-6500 QR: 20

Contains information on the following subject matter: magnetic compass error and preparing deviation tables, voyage planning, assisting the navigator, ship operation, and weather.

### QUARTERMASTER 3 & 2

NRTC

EDITION: 1995

NAVEDTRA NUMBER: 72120

SN: 0503-LP-479-6600 QR: 20

ASSIGNMENTS: 14 POINTS: 21

ERRATA #3 DATED: 9707

SN: 0503-LP-479-6603 QR: 20

ANSWER KEY SN: 0504-LP-777-5800 QR: 1

### QUARTERMASTER

TRAMAN

EDITION: 1995

NAVEDTRA NUMBER: 12120

SN: 0502-LP-479-6500 QR: 20

Contains information on the following subject matter: phases of watchstanding, log keeping, honors and ceremonies. You will have a basic knowledge of piloting, time, navigational aids, supply and maintenance, radiotelephone communications, maneuvering board, and electronic and celestial navigation.

## GENERAL NONRESIDENT TRAINING

### **RADIOMAN COMMUNICATIONS 1 & C**

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 82801

SN: 0503-LP-479-2300 QR: 25

ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-775-1000 QR: 1

### **RADIOMAN COMMUNICATIONS**

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12801

SN: 0502-LP-479-2100 QR: 25

Provides information on the duties and responsibilities of a supervisory Radioman as they relate to transmitter, receiver, and antenna theory; wave propagation; communications; organization, administration, and publications; message content and format; security; radiotelephone procedures; manual teleprinter procedures; automated systems; fleet communications; message center operations; communication systems maintenance and safety; and commercial traffic.

### **RADIOMAN COMMUNICATIONS 3 & 2**

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 72801

SN: 0503-LP-479-2200 QR: 25

ASSIGNMENTS: 8 POINTS: 12

ANSWER KEY SN: 0504-LP-774-8700 QR: 1

### **RADIOMAN COMMUNICATIONS**

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12801

SN: 0502-LP-479-2100 QR: 25

Provides information on the duties and responsibilities of the Radioman as they relate to transmitter, receiver, and antenna theory; wave propagation; communications; organization, administration, and publications; message content and format; security; radiotelephone procedures; manual teleprinter procedures; automated systems; fleet communications; message center operations; communication systems maintenance and safety; and commercial traffic.

### **RELIGIOUS PROGRAM SPECIALIST 1 & C**

NRTC

EDITION: 1986

NAVEDTRA NUMBER: 80239

SN: 0503-LP-500-1390 QR: 10

ASSIGNMENTS: 5 POINTS: 5

ERRATA #4 DATED: 9501

SN: 0503-LP-500-1394 QR: 10

ANSWER KEY SN: 0504-LP-776-0500 QR: 1

TRAMAN

EDITION: 1986

NAVEDTRA NUMBER: 10239-A

SN: 0502-LP-051-1895 QR: 10

Discusses the management skills necessary to the management of the Command Religious Program. Information is provided regarding the history of the Chaplain Corps and the Religious Program Specialist rating; office management skills and the management of naval communications; financial management; personnel management; and the education and training of Command Religious Program personnel, volunteer CRP personnel, and lay readers.

## GENERAL NONRESIDENT TRAINING

### RELIGIOUS PROGRAM SPECIALIST 3

NRTC EDITION: 1994

NAVEDTRA NUMBER: 82616

SN: 0503-LP-219-4400 QR: 15

ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-776-2400 QR: 1

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12616

SN: 0502-LP-219-4300 QR: 15

Covers basic information on the RP rating; command religious program (CRP); religious ministry facility (RMF); military weddings and funerals; major religions of the world; worship support functions; pastoral counseling support; information and referral assistance; logistics and support of the chapel, chaplain's office, RMF, and CRP; religious offering funds; religious education; publicity; security; library support; audiovisual presentations; and other aspects of chaplain backing and support, including religious program support in the field.

### RELIGIOUS PROGRAM SPECIALIST 3 & 2, MODULE I--PERSONNEL SUPPORT

TRAMAN/NRTC

EDITION: 1982

NAVEDTRA NUMBER: 287-01-45-82

SN: 0507-LP-287-0100 QR: 15

ASSIGNMENTS: 8 POINTS: 12

ERRATA #1 DATED: 1991

SN: 0507-LP-287-0101 QR: 15

ANSWER KEY SN: 0504-LP-775-9400 QR: 1

Covers basic information on the major religions of the world; worship support functions, chapel weddings and military funerals; information and referral assistance; publicity, material, and facility support within the Command Religious Program; audiovisual presentations; and shipboard library support.

### RELIGIOUS PROGRAM SPECIALIST 3 & 2, MODULE II--LOGISTIC SUPPORT AND FINANCIAL CONTROL

TRAMAN/NRTC

EDITION: 1981

NAVEDTRA NUMBER: 287-02-45-81

SN: 0507-LP-287-0200 QR: 15

ASSIGNMENTS: 4 POINTS: 5

ERRATA #2 DATED: 1996

SN: 0507-LP-287-0202 QR: 15

ANSWER KEY SN: 0504-LP-775-9500 QR: 1

Covers procuring, providing, and inventorying the materials necessary for the support of the chapel program; the preparation of procurement and reimbursement documents and the maintenance of departmental budget records and operating targets (OPTARs).

### RELIGIOUS PROGRAM SPECIALIST 3 & 2, MODULE III--ADMINISTRATION

TRAMAN/NRTC

EDITION: 1983

NAVEDTRA NUMBER: 287-03-45-83

SN: 0507-LP-287-0300 QR: 15

ASSIGNMENTS: 5 POINTS: 5

ERRATA #1 DATED: 1988

SN: 0507-LP-287-0301 QR: 15

ANSWER KEY SN: 0504-LP-775-9600 QR: 1

Covers the maintenance of Command Religious Program files and records; publications and directives; grammar and writing skills; presentation of correspondence; and officer and enlisted service records.

## GENERAL NONRESIDENT TRAINING

### SEABEE COMBAT HANDBOOK, VOL 1

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82003

SN: 0503-LP-476-7500 QR: 25

ASSIGNMENTS: 9 POINTS: 18

ERRATA #2 DATED: 9606

SN: 0503-LP-476-7502 QR: 25

ANSWER KEY SN: 0504-LP-776-6200 QR: 1

### TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12003

SN: 0502-LP-476-7400 QR: 25

ERRATA #1 DATED: 9605

SN: 0502-LP-476-7401 QR: 25

Provides the basic information and techniques involved in defensive combat. It includes organization of the Seabees and the laws of war; special clothing and equipment; service rifle and pistol marksmanship; combat maneuvers, formations, patrols, and ambush; land navigation; evasion, survival, and escape; individual protective measures; entanglements; CBR defense; first aid and field sanitation; organic communications equipment; hand grenades, landmines and booby traps; and organic support weapons.

### SEABEE COMBAT HANDBOOK, VOL 2

NRTC

EDITION: 1996

NAVEDTRA NUMBER: 82004

SN: 0503-LP-482-1800 QR: 30

ASSIGNMENTS: 6 POINTS: 9

ERRATA #1 DATED: 9704

SN: 0503-LP-482-1801 QR: 20

ANSWER KEY SN: 0504-LP-777-8600 QR: 1

### TRAMAN

EDITION: 1996

NAVEDTRA NUMBER: 12004

SN: 0502-LP-482-1700 QR: 30

Consists of chapters on Organization and Operation of the Combat Operations Center, Organization and Operation of the Company Command Post, Setup and Control of Medical Evacuation (MEDEVAC), Planning and Development of Defense Tactics, Counter Ambush Techniques, CBR Decontamination.

### SEAMAN

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82016

SN: 0503-LP-221-7900 QR: 75

ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-775-5700 QR: 1

### TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12016

SN: 0502-LP-221-7200 QR: 75

Contains information on the following subject matter: watches, watchstanding duties, marlinespike seamanship, deck seamanship, use and care of deck equipment, boat seamanship, ammunition and gunnery.

## GENERAL NONRESIDENT TRAINING

### SHIPBOARD ELECTRONICS MATERIAL OFFICER

NRTC  
EDITION: 1992  
NAVEDTRA NUMBER: 82969  
SN: 0503-LP-479-0600 QR: 5  
ASSIGNMENTS: 14 POINTS: 21

ANSWER KEY SN: 0504-LP-775-8700 QR: 1

TRAMAN  
EDITION: 1992  
NAVEDTRA NUMBER: 12969  
SN: 0502-LP-217-9400 QR: 5

Provides information for the electronics maintenance officer aboard ship. Provides information on organization and administration, training, safety and security, material responsibilities, communication theory and equipment, teletypewriter and facsimile equipment, radar theory and equipment, navigation theory and equipment, naval tactical data system, miscellaneous facilities, records, reports, publications, work beyond the capability of ship's force, supply, and electronic material identification.

### SHIP'S SERVICEMAN 1 & C

NRTC  
EDITION: 1986  
NAVEDTRA NUMBER: 80287  
SN: 0503-LP-500-1870 QR: 15  
ASSIGNMENTS: 7 POINTS: 9

ANSWER KEY SN: 0504-LP-776-0900 QR: 1

TRAMAN  
EDITION: 1986  
NAVEDTRA NUMBER: 10287-F  
SN: 0502-LP-051-4340 QR: 15

ERRATA #1 DATED: 1991  
SN: 0502-LP-051-4341 QR: 15

Provides descriptions of the duties and responsibilities of the senior Ship's Serviceman including the opportunities and challenges of the Ship's Serviceman rating and the leadership and management techniques the senior Ship's Serviceman will be expected to use. Includes information on the organization of ashore supply and fiscal activities; the supervision of procedures afloat for procurement of stock; receipt, stowage, and expenditure of stock; ship's store operations; and records and returns. Also provides a brief description of Navy commissary store operations and the Retail Operation Management (ROM) system.

### SHIP'S SERVICEMAN 2

NRTC  
EDITION: 1990  
NAVEDTRA NUMBER: 80177  
SN: 0503-LP-217-4700 QR: 15  
ASSIGNMENTS: 7 POINTS: 11

ANSWER KEY SN: 0504-LP-776-0200 QR: 1

TRAMAN  
EDITION: 1990  
NAVEDTRA NUMBER: 10177  
SN: 0502-LP-217-2900 QR: 15

Describes the general procedures for using the Retail Operation Management system, preparing and maintaining the ship's store files, collecting cash in ship's store afloat, receiving and accounting for ship's store stock, issuing material, inventorying merchandise and reconciling results, and laundry scheduling and quality assurance.

### SHIP'S SERVICEMAN 3

NRTC  
EDITION: 1990  
NAVEDTRA NUMBER: 80176  
SN: 0503-LP-217-7700 QR: 20  
ASSIGNMENTS: 7 POINTS: 11

ANSWER KEY SN: 0504-LP-776-0100 QR: 1

TRAMAN  
EDITION: 1990  
NAVEDTRA NUMBER: 10176  
SN: 0502-LP-217-6200 QR: 20

Describes the organization and functions of the Navy supply system and supply department afloat, security of supply department spaces, operation of the sales outlets, stowage of ships store stock, barber shop service, and the operation of the ship's laundry and dry-cleaning plant.

## GENERAL NONRESIDENT TRAINING

### **SIGNALMAN 1 & C**

NRTC

EDITION: 1996

NAVEDTRA NUMBER: 82104-A

SN: 0503-LP-482-1400 QR: 15

ASSIGNMENTS: 4 POINTS: 6

ERRATA #1 DATED: 9702

SN: 0503-LP-482-1401 QR: 10

ANSWER KEY SN: 0504-LP-777-8400 QR: 1

### **SIGNALMAN**

TRAMAN

EDITION: 1996

NAVEDTRA NUMBER: 12104-A

SN: 0502-LP-482-1300 QR: 15

ERRATA #1 DATED: 9702

SN: 0502-LP-482-1301 QR: 10

Provides information in the following areas: visual communications; signal equipment; messages; allied communication procedures; allied flaghoist procedures; international signaling; convoy communications; watchstanding duties; honors and ceremonies; security; amphibious duties; aircraft and ship identification, and technical administration.

### **SIGNALMAN 3 & 2**

NRTC

EDITION: 1996

NAVEDTRA NUMBER: 72104-A

SN: 0503-LP-482-1600 QR: 15

ASSIGNMENTS: 13 POINTS: 21

ERRATA #1 DATED: 9702

SN: 0503-LP-482-1601 QR: 10

ANSWER KEY SN: 0504-LP-777-8500 QR: 1

### **SIGNALMAN**

TRAMAN

EDITION: 1996

NAVEDTRA NUMBER: 12104-A

SN: 0502-LP-482-1300 QR: 15

ERRATA #1 DATED: 9702

SN: 0502-LP-482-1301 QR: 10

Provides information in the following areas: visual communications; signal equipment; messages; allied communication procedures; allied flaghoist procedures; international signaling; convoy communications; watchstanding duties; honors and ceremonies; security; amphibious duties; aircraft and ship identification, and technical administration.

# GENERAL NONRESIDENT TRAINING

## SONAR TECHNICIAN G 1 & C

NRTC

EDITION: 1996

NAVEDTRA NUMBER: 82499

SN: 0503-LP-002-1780 QR: 5

ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-002-1790 QR: 1

TRAMAN

EDITION: 1996

NAVEDTRA NUMBER: 12499

SN: 0502-LP-002-1770 QR: 5

Covers tactical use of the ocean environment, submarine weapon systems and capabilities, submarine sensors and capabilities, ASW operations, IUSS computers, peripherals, and subsystems; and torpedo evasion and countermeasure employment.

Special Information: **WARNING!** These products are classified SECRET. **ATTENTION!** This course reflects the newly merged Sonar Technician G rating and incorporates necessary training material related to the former Ocean Systems Technician ratings.

## SONAR TECHNICIAN G 3 & 2, VOLUME 1

NRTC

EDITION: 1996

NAVEDTRA NUMBER: 82497

SN: 0503-LP-002-1720 QR: 5

ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-002-1730 QR: 1

TRAMAN

EDITION: 1996

NAVEDTRA NUMBER: 12497

SN: 0502-LP-002-1710 QR: 5

Covers administration, physics of sound, basic lofargram analysis, surface ship ASW organization, contact analysis, target motion analysis, and plotting and positioning techniques.

Special Information: **WARNING!** These products are classified SECRET. **ATTENTION!** This course reflects the newly merged Sonar Technician G rating and incorporates necessary training material related to the former Ocean Systems Technician ratings.

## SONAR TECHNICIAN G 3 & 2, VOLUME 2

NRTC

EDITION: 1996

NAVEDTRA NUMBER: 82498

SN: 0503-LP-002-1750 QR: 5

ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-002-1760 QR: 1

TRAMAN

EDITION: 1996

NAVEDTRA NUMBER: 12498

SN: 0502-LP-002-1740 QR: 5

Covers surface ship active and passive sonar systems, auxiliary equipment, IUSS systems, ASW fire control systems, and lightweight torpedo shipboard handling and storage.

Special Information: **WARNING!** These products are classified SECRET. **ATTENTION!** This course reflects the newly merged Sonar Technician G rating and incorporates necessary training material related to the former Ocean Systems Technician ratings.

## SONAR TECHNICIAN S 1 & C

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 82488

SN: 0503-LP-218-5800 QR: 5

ASSIGNMENTS: 5 POINTS: 8

ANSWER KEY SN: 0504-LP-775-0900 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: 12488

SN: 0502-LP-218-5700 QR: 5

Provides information on data collection, tactical operation, tactical use of the ocean environment, towed array tactical employment, relative motion analysis, sonar ranging techniques, and range rate and frequency analysis.

Special Information: **WARNING!** These products are classified SECRET.



## GENERAL NONRESIDENT TRAINING

### SONAR TECHNICIAN S 3 & 2

NRTC  
EDITION: 1994  
NAVEDTRA NUMBER: 82486  
SN: 0503-LP-478-7700 QR: 5  
ASSIGNMENTS: 9 POINTS: 12

ANSWER KEY SN: 0504-LP-775-0800 QR: 1

#### TRAMAN

EDITION: 1994  
NAVEDTRA NUMBER: 12486  
SN: 0502-LP-478-7600 QR: 5

Provides fundamental information concerning the physics of sound, basic lofargram analysis, classification and surface ship analysis, diesel and nuclear submarine analysis, submarine search plan development, sonar tracking, target motion analysis, approach and attack, and submarine silencing.

Special Information: **WARNING!** These products are classified SECRET/NNINTEL/NOFORN.

### SOUND-POWERED TELEPHONE TALKERS' MANUAL

NRTC  
EDITION: 1994  
NAVEDTRA NUMBER: 82097  
SN: 0503-LP-480-0800 QR: 50  
ASSIGNMENTS: 1 POINTS: 2

ANSWER KEY SN: 0504-LP-777-4000 QR: 1

#### TRAMAN

EDITION: 1994  
NAVEDTRA NUMBER: 12097  
SN: 0502-LP-480-0700 QR: 50

Supplies the basic knowledge necessary for the sound-powered telephone talker in any situation or condition. The manual is designed for individual study and is designed to meet the E-2/3 naval standards, but also applies to all ratings and paygrades.

### STEELWORKER, VOLUME 1

NRTC  
EDITION: 1996  
NAVEDTRA NUMBER: 82529  
SN: 0503-LP-477-8400 QR: 20  
ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-777-7700 QR: 1

#### TRAMAN

EDITION: 1996  
NAVEDTRA NUMBER: 12529  
SN: 0502-LP-477-8300 QR: 20

Covers properties and uses of metals and alloys, basic heat treatment of metals, and an introduction to welding, gas cutting, gas welding, soldering, brazing, braze welding, wearfacing, shielded metal-arc welding and wearfacing, gas-shielded-arc welding.

### STEELWORKER, VOLUME 2

NRTC  
EDITION: 1996  
NAVEDTRA NUMBER: 82530  
SN: 0503-LP-482-2100 QR: 20  
ASSIGNMENTS: 8 POINTS: 12

ANSWER KEY SN: 0504-LP-777-8700 QR: 1

#### TRAMAN

EDITION: 1996  
NAVEDTRA NUMBER: 12530  
SN: 0502-LP-482-1900 QR: 20

Steelworkers fabricate and erect or install pre-engineered structures and layout and fabricate structural steel and fiber-glass duct. This course covers the layout and fabrication of sheet metal, fiber-glass duct, structural steel and pipe; the handling and care of wire rope and fiber line; the operation of hoisting devices and rigging; and procedures for erecting or assembling steel buildings, towers, antennas, tanks, airfield mattings and k-spans.

## GENERAL NONRESIDENT TRAINING

### STOREKEEPER 1 & C

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 82652

SN: 0503-LP-215-3100 QR: 25

ASSIGNMENTS: 9 POINTS: 14

ERRATA #1 DATED: 9401

SN: 0503-LP-215-3101 QR: 25

ANSWER KEY SN: 0504-LP-776-2600 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: 12652

SN: 0502-LP-215-2900 QR: 25

Provides training on these Storekeeper topics; administration; COSAL; funding and accounting; afloat reports; procurement; receipts and expenditures; storage afloat and ashore; inventory management; shipping; and automated supply procedures.

### STOREKEEPER 3 & 2

NRTC

EDITION: 1996

NAVEDTRA NUMBER: 82650

SN: 0503-LP-479-5300 QR: 15

ASSIGNMENTS: 8 POINTS: 12

ANSWER KEY SN: 0504-LP-777-6600 QR: 1

TRAMAN

EDITION: 1996

NAVEDTRA NUMBER: 12650

SN: 0502-LP-479-5200 QR: 15

Covers the basic information regarding the Storekeeper rating such as organization and function of the Navy supply system; supply procedures afloat and ashore; classification and identification of material; COSAL; procurement; material receipt, custody, and stowage; inventory management; expenditures; accounting classifications; afloat accounting and reporting; automated supply; maintenance and material management systems; material handling equipment; and packing, marking, and shipping material.

### SUPPLY AFLOAT

NRTC

EDITION: 1997

NAVEDTRA NUMBER: 13090

SN: 0503-LP-002-1090 QR: 10

ASSIGNMENTS: 12 POINTS: 18

ANSWER KEY SN: 0504-LP-002-1190 QR: 1

Provides regulations for the Navy Supply Systems Command and the afloat supply procedures for nonautomated ships and activities for the efficient operation and management of the supply department aboard ship. Coverage includes information on the following subjects: afloat supply procedures prescribed for nonautomated ships and activities pertaining to the organization and administration of the supply department; material identification; material procurement; material receipt, custody and stowage; material expenditure and shipment; inventory management; and transportation.

Special Information: The text for this course, *Afloat Supply Procedures*, NAVSUP PUB 485, with change 6 to Revision 2, is NOT supplied with the course and must be obtained by the student.

# GENERAL NONRESIDENT TRAINING

## TOOLS AND THEIR USES

NRTC  
EDITION: 1992  
NAVEDTRA NUMBER: 82085  
SN: 0503-LP-219-5200 QR: 25  
ASSIGNMENTS: 5 POINTS: 8

ERRATA #1 DATED: 1993  
SN: 0503-LP-219-5201 QR: 25

ANSWER KEY SN: 0504-LP-775-5800 QR: 1

## USE AND CARE OF HAND TOOLS AND MEASURING TOOLS

TRAMAN  
EDITION: 1992  
NAVEDTRA NUMBER: 12085  
SN: 0502-LP-219-5100 QR: 25

Provides information on the use and care of basic hand tools and measuring tools. It covers the types and uses of a large number of basic tools used in many jobs throughout the Navy. The safety requirements, general care, and repair procedures are discussed for each tool. This course is intended for use by all Navy personnel. The text used with this course furnishes information on how to choose the proper tool for each job, examples of how the tools should be used, and the safety precautions that must be followed. Students may keep the text for future reference. When they need information about a specific tool or operation, they can simply refer to the alphabetical index at the end of the manual and turn to the pages that apply.

## TORPEDOMAN'S MATE 1 & C

TRAMAN/NRTC  
EDITION: 1984  
NAVEDTRA NUMBER: 10164-D  
SN: 0502-LP-050-8230 QR: 15  
ASSIGNMENTS: 8 POINTS: 24

ERRATA #1 DATED: 1992  
SN: 0502-LP-050-8231 QR: 15

ANSWER KEY SN: 0504-LP-774-8100 QR: 1

Describes the enlisted rating structure as it applies to the TM rating. Provides information on the procedures for advancement in rate, and lists sources of information relative to the TM rating. This course is designed to help you become more knowledgeable in the field of underwater ordnance. The text has nine chapters and covers weapons currently in use, test equipment, launching methods, administration procedures, security, safety, and maintenance.

## TORPEDOMAN'S MATE SECOND CLASS

NRTC  
EDITION: 1991  
NAVEDTRA NUMBER: 82435  
SN: 0503-LP-215-9400 QR: 10  
ASSIGNMENTS: 5 POINTS: 8

ANSWER KEY SN: 0504-LP-775-0200 QR: 1

TRAMAN  
EDITION: 1991  
NAVEDTRA NUMBER: 12435  
SN: 0502-LP-215-9300 QR: 10

Provides coverage of the professional requirements for advancement to TM2. Coverage includes information on duties and responsibilities of the TM2; safety, handling, shipping and stowage; torpedo maintenance programs, mechanical and electrical maintenance; heavyweight torpedo maintenance; submarine simulator systems; and recovery operations.

## GENERAL NONRESIDENT TRAINING

### TORPEDOMAN'S MATE THIRD CLASS

NRTC

EDITION: 1989

NAVEDTRA NUMBER: 80168

SN: 0503-LP-219-4100 QR: 10

ASSIGNMENTS: 8 POINTS: 17

ANSWER KEY SN: 0504-LP-774-9200 QR: 1

TRAMAN

EDITION: 1989

NAVEDTRA NUMBER: 10168

SN: 0502-LP-219-2200 QR: 10

Provides coverage of the professional requirements for advancement to TM3. Coverage includes information on duties and responsibilities of the TM3; explosives; torpedo tools and equipment; surface-launched torpedoes; submarine-launched torpedoes; weapons handling, shipping and stowing; missile weapons systems, countermeasures and mines; torpedo tubes; small arms; and security.

Special Information: **WARNING!** These products are classified CONFIDENTIAL.

### USEFUL INFORMATION FOR NEWLY COMMISSIONED OFFICERS

SP

EDITION: 1992

NAVEDTRA NUMBER: 12967

SN: 0502-LP-220-6100 QR: 150

Aids new officers in their transition to Navy life. Useful to officers in a variety of commissioning programs. This reference booklet contains information on Navy career patterns, orders and travel, the first duty station, shipboard routines, protocol, legal and financial matters, official records, uniforms, courtesies, customs, and traditions of the Navy.

### UTILITIESMAN (ADVANCED)

NRTC

EDITION: 1995

NAVEDTRA NUMBER: 82534

SN: 0503-LP-480-3800 QR: 5

ASSIGNMENTS: 8 POINTS: 12

ERRATA #1 DATED: 9606

SN: 0503-LP-480-3801 QR: 5

ANSWER KEY SN: 0504-LP-777-6100 QR: 1

TRAMAN

EDITION: 1995

NAVEDTRA NUMBER: 12534

SN: 0502-LP-480-3700 QR: 5

Provides information pertaining to blueprint reading and technical drawings; planning, estimating, and scheduling; planning plumbing projects; fire protection systems; water treatment and purification; sewage treatment and disposal; compressed air systems; boilers; duct and ventilation systems, air conditioning and refrigeration; and environmental pollution control.

### UTILITIESMAN 2

NRTC

EDITION: 1990

NAVEDTRA NUMBER: 80662

SN: 0503-LP-212-7300 QR: 5

ASSIGNMENTS: 11 POINTS: 18

ANSWER KEY SN: 0504-LP-776-6000 QR: 1

TRAMAN

EDITION: 1990

NAVEDTRA NUMBER: 10662

SN: 0502-LP-212-7200 QR: 5

Covers information in the Utilitiesman rating, such as administrative duties and safety responsibilities; plans, specifications, and color coding; plumbing; pumps and air compressors; water treatment; maintenance of water treatment equipment; steam distribution systems; boilers; warm-air heating systems; hot-water heating systems; galley equipment; laundry equipment; refrigeration; and air conditioning.

## GENERAL NONRESIDENT TRAINING

### UTILITIESMAN 3

NRTC

EDITION: 1990

NAVEDTRA NUMBER: 82532

SN: 0503-LP-214-1200 QR: 5

ASSIGNMENTS: 12 POINTS: 18

ANSWER KEY SN: 0504-LP-776-8300 QR: 1

TRAMAN

EDITION: 1990

NAVEDTRA NUMBER: 12532

SN: 0502-LP-214-1100 QR: 5

Covers plans and specifications; rough-in plumbing; plumbing; plumbing repairs; prime movers, pumps, and air compressors; field water treatment and processes; advanced base field support facilities; boilers; hot-water and warm-air heating systems; refrigeration and air conditioning.

### YEOMAN 1 & C

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82614

SN: 0503-LP-218-8900 QR: 15

ASSIGNMENTS: 5 POINTS: 8

ANSWER KEY SN: 0504-LP-776-2300 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12614

SN: 0502-LP-218-8800 QR: 15

Covers material on the following subjects: the Navy Yeoman, education advancement, career opportunities, assignments, retention, administrative procedures, forms, reports, control records disposal, personnel support, manpower authorization, travel, security, legal, and separations.

### YEOMAN 3 & 2

NRTC

EDITION: 1995

NAVEDTRA NUMBER: 82613

SN: 0503-LP-480-6700 QR: 20

ASSIGNMENTS: 5 POINTS: 8

ANSWER KEY SN: 0504-LP-777-5700 QR: 1

TRAMAN

EDITION: 1995

NAVEDTRA NUMBER: 12613

SN: 0502-LP-480-6600 QR: 20

Covers material on the following subjects: the Navy Yeoman, official publications and directives, correspondence/message system, processing correspondence/messages, correspondence/message files and disposal, directives issuance system, reports and forms management programs, security, legal, awards, officer distribution control report (ODCR), officer service records, travel, leave procedures, and pay and allowances, and technical administration.

## **GENERAL NONRESIDENT TRAINING**

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## **PART 2**

### **CRYPTOLOGIC TECHNICIAN**

### **NONRESIDENT TRAINING PRODUCTS**

#### **INTRODUCTION**

Naval Security Group (NAVSECGRU) nonresident training products are developed by the Commanding Officer, Naval Education and Training Professional Development and Technology Center (NETPDTC), NAVSECGRU Division (hereafter referred to as Code N316 NETPDTC), Pensacola, FL, in accordance with requirements stated by the Commander, Naval Security Group Command. These materials include:

Naval Security Group Training Courses (NSGTCs) and Naval Security Group Training Publications (NSGTPs). NSGTCs and NSGTPs are stocked and administered ONLY by Code N316 at NETPDTC. A listing of NSGTCs and NSGTPs start on page 2-10. **NSGTCs and NSGTPs are ordered from:**

Commanding Officer  
NETPDTC Code N316  
6490 Saufley Field Road  
Pensacola FL 32509-5238

#### **LOCAL NAVSECGRU NONRESIDENT TRAINING LIBRARIES**

To minimize the delays that may result when course materials are forwarded by the Defense Courier Service (DCS), or by registered mail, and to maximize service to the enrollee, NAVSECGRU nonresident training libraries are established at NAVSECGRU elements throughout the world.

Where maintenance of a library is within the administrative capacity of an element, and that element wishes to establish a library, official correspondence to that effect should be forwarded to:

Commanding Officer  
NETPDTC Code N316  
6490 Saufley Field Road  
Pensacola FL 32509-5238

(GENSER Message Address: NETPDTC  
PENSACOLA FL//N316//).

DSN: 922-1688  
COMM: 850-452-1688  
E-MAIL: cryptologic.products@smtp.cnet.navy.mil

Requests should indicate specific courses/publications and quantity required. Upon receipt of the request, NAVSECGRU nonresident training materials will be provided including NSGTCs/NSGTPs and answer keys.

#### **SECURITY CLEARANCES AND NEED-TO-KNOW**

Commanding officers are responsible for ensuring recipients of classified materials have the proper security clearance and the need-to-know.

# CRYPTOLOGIC TECHNICIAN NONRESIDENT TRAINING PRODUCTS

## CURRENT EVENTS

### ● CTR—CTRCS(SW) Renna (GARENNA@NSA)

Per COMNAVSECGRU 132000Z JUN 96, the following changes to CTR advancement-in-rate requirements are noted below. The following courses are to be deleted as mandatory advancement-in-rate requirements following the March 1997 (cycle 155) examination for the respective paygrades below:

CTR3 — NSGTC Module 16, *Radio Wave Modulation and Signal Multiplexing*

CTR2 — NSGTC Module 22, *Fleet Operations—Orientation*

The following course is added as a mandatory advancement-in-rate requirement for the March 1997 (cycle 155) examination for the respective paygrade below:

CTR2 — NSGTC Module 15, *Analysis and Reporting—SIGINT Reporting*

The following course will be a mandatory advancement-in-rate requirement for the September 1997 (cycle 156) examination for the respective paygrade below:

CTR3 — NSGTC Module 22, *Fleet Operations—Orientation*

The following course will be deleted as an advancement-in-rate requirement following the January 1998 (cycle 158) examination for the respective paygrade below:

CTR3 — NSGTC Module 24, *Fleet Operations—Tactical Cryptologic Management*

The following course will be added as a mandatory advancement-in-rate requirement for the March 1998 (cycle 159) examination for the respective paygrade below:

CTR1 — NSGTC Module 24, *Fleet Operations—Tactical Cryptologic Management*

The revised NSGTC Module 9, *Cryptologic Collection Equipments* (NSGTC 684-09-00-96), consolidates and supersedes the former NSGTC 684-09-44-91, and NSGTC 684-10-44-91. It will remain a mandatory advancement-in-rate requirement for CTR2. Personnel who completed NSGTC 684-09-44-91 and NSGTC 684-10-44-91 are NOT required to complete NSGTC 684-09-00-96.

## CTR DELTA TRAINING

CTR Delta training courses are established as mandatory advancement-in-rate requirements for personnel competing for paygrades E4-E8 as follows (read course, title, exam date, and exam cycle):

EA-106	INTRO TO DSP	MAR 97	155
EA-183	MATH FOR SIGINT	JAN 96	150
EA-190	DIGITAL COMMS	SEP 96	152
EC-124	INTRO TO COMSAT	SEP 96	152

Personnel graduating CTR "A" school class 94380 on 10 Nov 94 and subsequent CTR "A" school graduates are exempt from the above advancement-in-rate requirements.

NSGTC Module 6, *Analysis and Reporting—Introduction*, is to be replaced by TA-103, *Basic Traffic Analysis*, as a mandatory advancement-in-rate requirement for CTR2 effective with the March 1998 (cycle 159) examination.

NSGTC Module 5, *Communications Signals Collection Operator* (NSGTC 684-05-00-96), has been deleted as an advancement-in-rate requirement for CTR2, but the text (NSGTP 683-05-00-96) remains as reference material for advancement-in-rate examinations for all CTRs.



## CRYPTOLOGIC TECHNICIAN NONRESIDENT TRAINING PRODUCTS

### ● CTT—CTTCM Hinkle (RJHINK2@NSA)

#### CTT DELTA TRAINING

Per COMNAVSECGRU 181720Z JUL 96, CTT Delta training courses are established as mandatory advancement-in-rate requirements for personnel competing for the paygrades as follows (read: paygrade, course, title, exam date, and exam cycle).

E4-E8 EA-183 *Math for SIGINT* SEP 97 156  
E6-E7 NRO *Systems Overview* MAR 98 159

Personnel graduating from CTT "A" school class 97010 (20 Dec 96) and later, are exempt from completing EA-183 for advancement-in-rate.

NAVEDTRA 12961, *Naval Space*, will be a mandatory advancement-in-rate requirement for CTT2 beginning with the March 1998 (cycle 159) examination.

### ● CTI—CTICS Luttrell (STLUTTR@NSA)

Per COMNAVSECGRU 172035Z JUL 96, CTI advancement-in-rate working group results, many changes in requirements will be taking place. Below is a list of courses that are to be deleted and added as mandatory requirements with effective dates. NSGTC Module 9, *Cryptologic Collection Equipments* (NSGTC 684-09-00-96), consolidates and supersedes the former NSGTCs 684-09-44-91 and 684-10-44-91. Personnel who completed the former NSGTCs are NOT required to complete NSGTC 684-09-00-96.

The following course will be deleted as a mandatory advancement-in-rate requirement following the September 1997 (Cycle 156) examination for the respective paygrade below:

CTI2 — NSGTC Module 6, *Analysis and Reporting—Introduction*

The following course has been added as a mandatory advancement-in-rate requirement for the March 1997 (cycle 155) examination for the respective paygrade below:

CTI3 — NSGTC Module 1, *Naval Cryptology in National Security*

The following courses have been added as mandatory advancement-in-rate requirements for the September 97 (cycle 156) examination for the respective paygrade below:

CTI1 — NSGTC Module 5, *Communications Signals Collection Operator*  
TA-103, *Basic Traffic Analysis*  
EA-030, *Introduction to Multichannel Technology*

The following courses have been deleted as mandatory advancement-in-rate requirements after the January 1997 (cycle 154) examination for the respective paygrade below:

CTIC — NSGTC Module 24, *Fleet Operations—Tactical Cryptologic Management*  
NSGTC Module 31, *Supervision and Training*

The following courses have been added as mandatory advancement-in-rate requirements for the January 1998 (cycle 158) examination for the respective paygrade below:

CTIC — NAVEDTRA 82961, *Naval Space IS-070, Introduction to ELINT Analysis and Reporting*

## CRYPTOLOGIC TECHNICIAN NONRESIDENT TRAINING PRODUCTS

### ● CTA — CTAC(SW) Davis (DEDAVI4@NSA)

Per COMNAVSECGRU 041515Z APR 96, the advancement-in-rate typing performance test requirement is deleted for all paygrades effective with the March 97 (cycle 155) examination.

The following course has been added as a mandatory advancement-in-rate requirement beginning with the January 1998 (cycle 158) examination for the respective paygrades below. *Navy Performance Evaluation and Counseling System*, BUPERSINST 1610.10, which is the publication used for the course, can be downloaded from BUPERS access.

CTAC — NSGTC Module 32, *Evaluation/Fitness Report*  
CTA1  
CTA2

### ● CTM — CTMCM Abernethy (DRABERN@NSA)

The following course was deleted as a mandatory advancement-in-rate requirement following the January 1997 (cycle 154) examination for the respective paygrade below:

CTMC — NSGTC Module 35, *CTM Supervisor*

The following course is a mandatory advancement-in-rate requirement for the January 1998 (cycle 158) examination for the respective paygrade below:

CTMC — NSGTC Module 31, *Supervision and Training*

### ● CTO — CTOCM Pace (JEPACE@NSA)

The following courses have been added as mandatory advancement-in-rate requirements for the January 1998 (cycle 158) examination for the respective paygrade below:

CTOC — NSGTC Module 15, *Analysis and Reporting—SIGINT Reporting*  
NSGTC Module 24, *Fleet Operations, Tactical Cryptologic Management*

# CRYPTOLOGIC TECHNICIAN NONRESIDENT TRAINING PRODUCTS

## CT MANDATORY COURSE REQUIREMENTS BY PAYGRADE FOR JAN 1998/MAR 1998

	T	A	M	O	R	I
NAVAL CRYPTOLOGY IN NATIONAL SECURITY, NSGTC 684-01-00-91	6	6	6	6	6	4
CRYPTOLOGIC OPERATORS MANUAL FOR ELINT OPERATIONS, NSGTC 684-04-00-94	5					
COMMUNICATIONS SIGNALS COLLECTION OPERATOR, NSGTC 684-05-00-96						6
CRYPTOLOGIC COLLECTION EQUIPMENTS, NSGTC 684-09-00-96					5	5
SCI SECURITY & EMERGENCY DESTRUCTION, NSGTC 684-11-00-94	4	4	4	4	4	4
ANALYSIS AND REPORTING—SIGINT REPORTING, NSGTC 684-15-44-90				7	5	
RADIO WAVE MODULATION & SIGNAL MULTIPLEXING, NSGTC 684-16-44-91	4					
ELINT COLLECTION PROCEDURES, NSGTC 684-17-44-92	5					
ELINT PROCESSING, ANALYSIS & REPORTING PROCEDURES, NSGTC 684-18-55-92	6					
TECHNICAL CONTROL, NSGTC 684-20-00-94				5		
FLEET OPS - ORIENTATION, NSGTC 684-22-00-97	5		5		4	5
FLEET OPS - ELECTRONIC WARFARE, NSGTC 684-23-00-93	6				6	
FLEET OPS - TACTICAL CRYPTOLOGIC MANAGEMENT, NSGTC 684-24-00-92	7			7	6-7	
INTRO TO THE CTA RATING, NSGTC 684-25-00-96		4				
ADMINISTRATIVE OFFICE PROCEDURES, NSGTC 684-26-00-96		5				

# CRYPTOLOGIC TECHNICIAN NONRESIDENT TRAINING PRODUCTS

## CT MANDATORY COURSE REQUIREMENTS BY PAYGRADE FOR JAN 1998/MAR 1998

	T	A	M	O	R	I
SHIPBOARD COMMUNICATIONS, NSGTC 684-28-00-94				5		
SUPERVISION AND TRAINING, NSGTC 684-31-00-96	7	6	7	7	7	
EVALUATION/FITNESS REPORT, NSGTC 684-32-00-97		5-7				
CTM ORGANIZATION & ADMINISTRATION, NSGTC 684-34-00-95			5			
CTM SAFETY, NSGTC 684-36-00-95			4			
*INTRO TO NUMBER SYSTEMS AND LOGIC CIRCUITS, NEETS MODULE 13, NAVEDTRA 172-13-00-94				5		
*INTRO TO MICROELECTRONICS, NEETS MODULE 14, NAVEDTRA 172-14-00-84			5			
#MATH FOR SIGINT, EA-183	4-8				4-8	
#INTRO TO DIGITAL SIGNAL ANALYSIS SYSTEMS, EA-106					4-8	
#DIGITAL COMMS, EA-190				6	4-8	
#INTRO TO COMSAT, EC-124					4-8	
*LEGALMAN 3 & 2, NAVEDTRA 72609		6				
*LEGALMAN 1 & C, NAVEDTRA 82609		7				
*NAVAL SPACE, NAVEDTRA 82961	5					7
#INTRO TO MULTICHANNEL TECHNOLOGY, EA-030						6
#INTRO TO ELINT ANALYSIS AND REPORTING, IS-070						7
#BASIC TRAFFIC ANALYSIS, TA-103					5	6
#NRO SYSTEMS OVERVIEW	6					

\* See Part 1 for ordering information.

# See your local NAVSECGRU nonresident training library for ordering information.

# CRYPTOLOGIC TECHNICIAN NONRESIDENT TRAINING PRODUCTS

## ADMINISTRATIVE INFORMATION

<p><b>WHO IS ELIGIBLE TO ENROLL IN SPECIAL NAVSECGRU TRAINING COURSES</b></p>	<ol style="list-style-type: none"> <li>1. Enrollment is limited to personnel who:               <ol style="list-style-type: none"> <li>a. currently hold the requisite security clearance</li> <li>b. are assigned to an activity having adequate facilities for the proper stowage and protection of the materials</li> <li>c. have completed any prerequisite course(s)</li> <li>d. normally are in one of the following categories:                   <ul style="list-style-type: none"> <li>• Active duty personnel of any service assigned duty with the Naval Security Group.</li> <li>• Inactive duty personnel of any service assigned duty with the Naval Reserve Security Group and residing in the United States.</li> <li>• Marine Corps personnel assigned duty with a component of the Naval Security Group, a Marine Support Battalion, Radio Battalion, or a Special Security Communications team.</li> <li>• Civilian personnel employed by activities providing functional support to the Naval Security Group mission.</li> </ul> </li> </ol> </li> <li>2. Exceptions may be made on a <b>case-by-case</b> basis.</li> </ol>
<p><b>HOW TO ENROLL</b></p>	<ol style="list-style-type: none"> <li>1. <u>Enlisted Personnel, Officers, and Civilians.</u> <ol style="list-style-type: none"> <li>a. Personnel at elements that maintain a NAVSECGRU nonresident training library should enroll at, and have assignments graded by, their local library.</li> <li>b. Personnel at elements that DO NOT maintain a NAVSECGRU nonresident training library should enroll by letter (via the chain of command) with Code N316 at NETPDTC. (See mailing address on page 2-1.)</li> </ol> </li> <li>2. Enrollment requests to Code N316 NETPDTC should indicate the specific material required, student's need-to-know, stowage capabilities, and clearance certification (when appropriate).</li> </ol>
<p><b>WHAT ANSWER SHEETS TO USE</b></p>	<p>Use conventional answer sheets for NSGTCs.</p>

## CRYPTOLOGIC TECHNICIAN NONRESIDENT TRAINING PRODUCTS

### ADMINISTRATIVE INFORMATION (Continued)

HOW ASSIGNMENTS ARE GRADED	<ol style="list-style-type: none"> <li>1. Return completed assignments to the issuing authority (NAVSECGRU library or Code N316 NETPDTC) for grading.               <ol style="list-style-type: none"> <li>a. NAVSECGRU libraries will grade assignments and make a page 4 service record entry locally.</li> <li>b. Code N316 NETPDTC will grade assignments and issue a completion letter. Completed assignments should be returned to Code N316 NETPDTC as soon as they are completed. <b>DO NOT HOLD COMPLETED ASSIGNMENTS.</b></li> </ol> </li> <li>2. Return course materials to the issuing authority upon course completion.</li> </ol>
GRADES	<ol style="list-style-type: none"> <li>1. A passing score is 3.2 or above.</li> <li>2. Students receiving a failing score on an assignment must resubmit a new answer sheet marked <b>RESUBMIT</b>.</li> <li>3. The maximum grade for a resubmitted assignment is 3.2.</li> <li>4. Scores on resubmitted assignments will be averaged into the overall score.</li> <li>5. To qualify for a completion letter, students must achieve an overall course grade of at least 3.2.</li> </ol>
COMPLETION LETTERS	<ol style="list-style-type: none"> <li>1. Completion letters are issued to all personnel who complete a course administered by Code N316 NETPDTC.</li> <li>2. Completion letters become a permanent part of an officer's service record and serve as the basis for service record entries for enlisted personnel.</li> </ol>
HOW TO DISENROLL	<ol style="list-style-type: none"> <li>1. Advisories of disenrollment must be sent to the issuing authority and should contain the reason for disenrollment.</li> <li>2. Students must return all course materials to the issuing authority upon disenrollment.</li> </ol>
STUDENT TRANSFERS	<ol style="list-style-type: none"> <li>1. Each activity should ensure that local personnel check-out procedures provide for the return of all NAVSECGRU nonresident course materials to the issuing authority.</li> <li>2. Transferring students, enrolled at Code N316 NETPDTC, should inform Code N316 if he or she wishes to be completely disenrolled or wishes enrollment records to be transferred to the new command.</li> </ol>

## CRYPTOLOGIC TECHNICIAN NONRESIDENT TRAINING PRODUCTS

### ADMINISTRATIVE INFORMATION (Continued)

USNR RETIREMENT POINTS	<ol style="list-style-type: none"> <li>1. Each course lists the recommended points for USNR retirement.</li> <li>2. For detailed information about retirement points, refer to the effective edition of BUPERSINST 1820.3.</li> </ol>
HOW TO PROVIDE STUDENT FEEDBACK	<ol style="list-style-type: none"> <li>1. Comments and recommendations from students are highly valued. Informal notes or memorandums are encouraged.</li> <li>2. Classified comments should be forwarded, via the student's command mail room, to Code N316 at the address listed on page 2-1.</li> </ol>
HOW TO GET ASSISTANCE	<ol style="list-style-type: none"> <li>1. Send administrative or technical queries to Code N316 at the address on page 2-1.</li> <li>2. Assistance via telephone may be obtained from Code N316 by calling DSN 922-1688.</li> <li>3. Queries may also be addressed via the NSANET to SID: JLBOSTO@NSA for informal information.</li> </ol>

### SOURCES FOR CT ADVANCEMENT STUDY MATERIALS

TYPE PUBLICATION	SOURCE
NAVEDTRA (TRAMAN OR NRTC)	NAVEDTRA 12061
USSID, SEDSCAF, EPL, COI, DOI	DIRNSA/CHCSS
OPNAVINST, SECNAVINST, NWP, NTP, NAVSEA, NAVELEX, NAVSO, NAVMAT, DCAC, ACP  NAVPERS 18068 VOLUME 1, CHAPTER 20 (CT OCCSTDS)	NORMAL SUPPLY CHANNELS
CMS	DCMS
NSGTP/NSGTC	CODE N316 NETPDTC

# CRYPTOLOGIC TECHNICIAN NONRESIDENT TRAINING PRODUCTS

## COURSE DESCRIPTIONS

The following NSGTCs and NSGTPs are currently stocked at the Naval Education and Training Professional Development and Technology Center, NAVSECGRU Division (Code N316), Pensacola, Florida.

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### **Module 1—Naval Cryptology in National Security**

NSGTC NUMBER: 684-01-00-91  
ASSIGNMENTS: 2                      POINTS: 3

NSGTP NUMBER: 683-01-00-91

This module provides Naval Security Group personnel with a general orientation of the cryptologic community with a particular emphasis on the mission, function, and organization of the National Security Agency/Central Security Service and the Naval Security Group.

Special Instructions: **Special Handling Required.**  
WARNING! This course is classified SECRET and contains Sensitive Compartmented Information (SCI).

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### **Module 4—Cryptologic Operators Manual for ELINT Operations**

NSGTC NUMBER: 684-04-00-94  
ASSIGNMENTS: 2                      POINTS: 4

NSGTP NUMBER: 683-04-00-94

This module provides the student with information concerning national and naval ELINT responsibilities; radar types and functions; radar system characteristics; ELINT collection and reporting; and threat emitters.

Special Instructions: WARNING! This course is classified SECRET.

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### **Module 5—Communications Signals Collection Operator**

NSGTC NUMBER: 684-05-00-96  
ASSIGNMENTS: 3                      POINTS: 6

NSGTP NUMBER: 683-05-00-96

This module provides information concerning the characteristics of radio wave theory, modulation, multiplexing techniques, and satellite communication theory. Describes advanced international communication procedures; communication intelligence operations; and signals intelligence reporting procedures.

Special Instructions: **Special Handling Required.**  
WARNING! This course is classified SECRET and contains Sensitive Compartmented Information (SCI).

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### **Module 6—Analysis and Reporting: Introduction**

NSGTC NUMBER: 684-06-44-90  
ASSIGNMENTS: 2                      POINTS: 3

NSGTP NUMBER: 683-06-44-90

This module, the first in the Analysis and Reporting series, discusses Navy cryptology; traffic analysis; radio wave and radar theory; signal propagation and antennas; radio operations and net formatting; callsigns; and characteristics of messages and message routing.

Special Instructions: **Special Handling Required.**  
WARNING! This course is classified SECRET and contains Sensitive Compartmented Information (SCI).

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## CRYPTOLOGIC TECHNICIAN NONRESIDENT TRAINING PRODUCTS

### **Module 7—Cryptographic Operator's Manual**

NSGTC NUMBER: 684-07-44-92

ASSIGNMENTS: 3                      POINTS: 6

NSGTP NUMBER: 683-07-44-92

This module provides the student with information concerning the make-up of a secure communications system, basic handling requirements of Communications Security (COMSEC) Material associated with cryptosystems, step-by-step procedures for operation of the various cryptosystems used within the Naval Security Group, and the Defense Special Security Communications Systems. Includes descriptions of a variety of on-line and off-line equipments used on shore, surface, and airborne platforms.

Special Instructions: WARNING! This course is classified CONFIDENTIAL.

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### **Module 9—Cryptologic Collection Equipments**

NSGTC NUMBER: 684-09-00-96

ASSIGNMENTS: 5                      POINTS: 7

NSGTP NUMBER: 683-09-00-96

This module discusses preventive maintenance responsibilities of the operator, equipment nomenclature, and primary equipments used by operations personnel in the NAVSECGRU. Topics include discussions of transmission lines, multicoupling devices, patch panels, and antennas as well as general characteristics and functions of numerous receivers, demodulators, digitizers, demultiplexers, computers, and analysis equipment.

Special Instructions: WARNING! This course is classified CONFIDENTIAL.

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### **Module 11—SCI Security and Emergency Destruction**

NSGTC NUMBER: 684-11-00-94

ASSIGNMENTS: 4                      POINTS: 7

NSGTP NUMBER: 683-11-00-94

This module provides information from many sources on the common requirements associated with security and emergency destruction of classified material encountered within the Naval Security Group. The publication contains information on access and dissemination; Security Education Program; security; security markings; transmitting, receipting, and accounting for classified material; security violations and compromises; and emergency destruction.

Special Instructions: **Special Handling Required.** WARNING! This course is classified SECRET and contains Sensitive Compartmented Information (SCI).

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### **Module 13—Analysis and Reporting: Net Reconstruction**

NSGTC NUMBER: 684-13-44-90

ASSIGNMENTS: 3                      POINTS: 6

NSGTP NUMBER: 683-13-44-90

This module, the second in the Analysis and Reporting series, discusses radio network reconstruction, routing and address systems, chatter analysis, message format analysis, serial number analysis, message externals analysis, and textual features analysis.

Special Instructions: WARNING! This course is classified CONFIDENTIAL.

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# CRYPTOLOGIC TECHNICIAN NONRESIDENT TRAINING PRODUCTS

## **Module 14—Analysis and Reporting: Analysis Tools**

NSGTC NUMBER: 684-14-44-90  
ASSIGNMENTS: 2                      POINTS: 4

NSGTP NUMBER: 683-14-44-90

This module, the third in the Analysis and Reporting series, discusses applications of traffic analysis, analytic considerations, the terrestrial sphere, and the analyst's tools.

Special Instructions: **Special Handling Required.**  
WARNING! This course is classified SECRET and contains Sensitive Compartmented Information (SCI).

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## **Module 15—Analysis and Reporting: SIGINT Reporting**

NSGTC NUMBER: 684-15-44-90  
ASSIGNMENTS: 1                      POINTS: 2

NSGTP NUMBER: 683-15-44-90

This module, part of the Analysis and Reporting series, discusses and gives examples of specific SIGINT reports and formats.

Special Instructions: **Special Handling Required.**  
WARNING! This course is classified SECRET and contains Sensitive Compartmented Information (SCI).

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## **Module 16—Radio Wave Modulation & Signal Multiplexing**

NSGTC NUMBER: 684-16-44-91  
ASSIGNMENTS: 2                      POINTS: 3

NSGTP NUMBER: 683-16-44-91

This module familiarizes the student with the basic concepts of sine-wave characteristics, types of modulation, and keying and signal multiplexing.

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## **Module 17—ELINT Collection Procedures**

NSGTC NUMBER: 684-17-44-92  
ASSIGNMENTS: 1                      POINTS: 1

Note: The text for this course is USSID 140.

This course provides information on the procedures involved in collecting electronic intelligence.

Special Instructions: **WARNING!** This course is classified CONFIDENTIAL.

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## **Module 18—ELINT Processing, Analysis, and Reporting Procedures**

NSGTC NUMBER: 684-18-55-92  
ASSIGNMENTS: 1                      POINTS: 1

Note: The text for this course is USSID 240.

This course provides information on ELINT processing, analysis, and reporting procedures.

Special Instructions: **WARNING!** This course is classified SECRET.

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## **Module 20—Technical Control**

NSGTC NUMBER: 684-20-00-94  
ASSIGNMENTS: 2                      POINTS: 4

NSGTP NUMBER: 683-20-00-94

This module provides information on the scope and responsibilities of the technical controller; the mission, policy, and various organizations of naval communications; basic telecommunications theory; individual technical control subsystems, power requirements, and safety; basic principles and common configurations of communications equipments, antennas, and terminal equipments; types and theory of radio wave propagation; satellite communications; basic test equipments; system diagnosis and quality assurance; and technical control administration including reports and required logs.

Special Instructions: **WARNING!** This course is classified CONFIDENTIAL.

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## CRYPTOLOGIC TECHNICIAN NONRESIDENT TRAINING PRODUCTS

### **Module 21—Automated Communications**

NSGTC NUMBER: 684-21-00-93

ASSIGNMENTS: 2                      POINTS: 4

NSGTP NUMBER: 683-21-00-93

This module provides the CTO with a basic understanding of automated data processing and describes current automated communications systems and networks.

Special Instructions: WARNING! This course is classified CONFIDENTIAL.

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### **Module 22—Fleet Operations--Orientation**

NSGTC NUMBER: 684-22-00-97

ASSIGNMENTS: 2                      POINTS: 3

NSGTP NUMBER: 683-22-00-97

This module introduces the student to many aspects of U.S. fleet operations. It includes general information on the Navy's strategic concept, their national command structure, the missions of naval ships and aircraft, combat systems, command and control warfare, and afloat training.

Special Instructions: WARNING! This course is classified SECRET.

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### **Module 23—Fleet Operations--Electronic Warfare**

NSGTC NUMBER: 684-23-00-93

ASSIGNMENTS: 2                      POINTS: 3

NSGTP NUMBER: 683-23-00-93

This module introduces the student to the cryptologic aspects of electronic warfare. It includes general information on electronic warfare theory and application to ships, aircraft, and submarines.

Special Instructions: WARNING! This course is classified SECRET.

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### **Module 24—Fleet Operations--Tactical Cryptologic Management**

NSGTC NUMBER: 684-24-00-92

ASSIGNMENTS: 2                      POINTS: 4

NSGTP NUMBER: 683-24-00-92

This module introduces the student to the management of tactical cryptologic assets. It includes information regarding tactical communications, the naval tactical data system tactics, shore-based support, publications, and operational directives.

Special Instructions: **Special Handling Required.** WARNING! This course is classified SECRET and contains Sensitive Compartmented Information (SCI).

---

### **Module 25—Introduction to the Cryptologic Technician (Administrative) Rating**

NSGTC NUMBER: 684-25-00-96

ASSIGNMENTS: 3                      POINTS: 7

NSGTP NUMBER: 683-25-00-96

This module contains information on duties and responsibilities of the CTA. Describes cryptology and intelligence, the CTA rating, typical CTA working environments, CTA skills, and personal qualities. Discusses how to prepare official correspondence, filing procedures, and general administrative duties.

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### **Module 26—Administrative Office Procedures**

NSGTC NUMBER: 684-26-00-96

ASSIGNMENTS: 2                      POINTS: 4

NSGTP NUMBER: 683-26-00-96

This module contains information on files and records; publications and directives; reports management and correspondence control; advancement-in-rate examinations; and joint military decorations and awards.

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# CRYPTOLOGIC TECHNICIAN NONRESIDENT TRAINING PRODUCTS

## **Module 28—Shipboard Communications**

NSGTC NUMBER: 684-28-00-94  
ASSIGNMENTS: 4                      POINTS: 8

NSGTP NUMBER: 683-28-00-94

This module contains an overall introduction to shipboard communications; information on shipboard safety; security and administration; combat readiness; communications systems and equipment; and messages and files.

Special Instructions: WARNING! This course is classified CONFIDENTIAL.

## **Module 30—Department of the Navy Correspondence Manual Course**

NSGTC NUMBER: 684-30-00-97  
ASSIGNMENTS: 3                      POINTS: 5

Note: The text for this course is *Department of the Navy Correspondence Manual*, SECNAVINST 5216.5D.

This course provides information on the administrative and managerial responsibilities of the DON correspondence program.

## **Module 31—Supervision and Training**

NSGTC NUMBER: 684-31-00-96  
ASSIGNMENTS: 3                      POINTS: 5

NSGTP NUMBER: 683-31-00-96

This module provides information to CTAs concerning TQL; enlisted and officer occupational classification systems; training; manpower requirements and authorizations; enlisted advancement system; and educational programs.

## **Module 32—Evaluation/Fitness Report**

NSGTC NUMBER: 684-32-00-97  
ASSIGNMENTS: 3                      POINTS: 5

Note: The text for this course is *Navy Performance Evaluation and Counseling System*, BUPERSINST 1610.10.

This course provides information on the procedures and requirements for preparing, recording, and submitting evaluation and fitness reports on naval personnel.

## **Module 34—CTM Organization and Administration**

NSGTC NUMBER: 684-34-00-95  
ASSIGNMENTS: 2                      POINTS: 1

NSGTP NUMBER: 683-34-00-95

This module contains information on duties and responsibilities of the CTM; maintenance-related publications and directives; and drawings and blueprints.

## **Module 35—CTM Supervisor**

NSGTC NUMBER: 684-35-00-95  
ASSIGNMENTS: 3                      POINTS: 5

NSGTP NUMBER: 683-35-00-95

This module provides the prospective supervisor with information related to general administrative procedures, material control, the Navy's manpower program, the 3-M system, installations, budgeting, and property management.

## **Module 36—CTM Safety**

NSGTC NUMBER: 684-36-00-95  
ASSIGNMENTS: 3                      POINTS: 5

NSGTP NUMBER: 683-36-00-95

This module contains information on the Naval Safety Program; safety precautions for health-hazardous materials; safety precautions for portable power tools; precautions when working with or around electricity; and the types of personal protective equipment.

## CRYPTOLOGIC TECHNICIAN NONRESIDENT TRAINING PRODUCTS

### ***Module 37—NAVSECGRU Awards Manual Course***

NSGTC NUMBER: 684-37-00-97  
ASSIGNMENTS: 2 POINTS: 3

Note: The text for this course is *Naval Security Group Awards Manual*, NSGINST 1650.9C.

This course provides information on the various types of NAVSECGRU awards and their submission criteria.

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### ***Module 38—Naval Military Personnel Manual Course***

NSGTC NUMBER: 684-38-00-97  
ASSIGNMENTS: 2 POINTS: 3

Note: The text for this course is *Naval Military Personnel Manual*, NAVPERS 15560C.

This course provides information on various Navy-related personnel programs of interest to CT personnel as well as their associated requirements.

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# **PART 3**

## **NAVAL SCHOOL OF HEALTH SCIENCES**

### **NONRESIDENT TRAINING COURSES**

#### **GENERAL INFORMATION**

The nonresident training courses listed below are developed by the Naval School of Health Sciences, Portsmouth, Virginia. The Naval School of Health Sciences enrolls the students, grades the assignments, and certifies satisfactory completion. An application has been included following the description of the courses. You may photocopy this form. Please complete the entire form and submit to:

COMMANDING OFFICER (CODE 38)  
NAVAL SCHOOL OF HEALTH SCIENCES  
1001 HOLCOMB ROAD  
PORTSMOUTH, VIRGINIA 23708-5200

or call

COMMERCIAL: (757) 953-7627  
FAX: (757) 953-6956  
E-MAIL: pnh9jak@pnh10.med.navy.mil

**\*\*DO NOT SEND APPLICATION TO NETPDTC\*\***

Occasionally, shortages of course materials produce waiting lists.

Applicants may enroll in three courses at a time. If a course is temporarily out of stock, your application will be retained and the course will automatically be sent when it becomes available.

Read all introductory material for each course. Commercial textbooks must be returned before any completion letter or credit is issued. If textbook is not returned within thirty (30) days of course completion, a letter will be sent to applicant's Commanding Officer.

NOTE: Retirement point credit is listed for each NRTC, but is only applicable to Naval Reserve personnel NOT currently on active duty.

#### **COURSE DESCRIPTIONS**

##### **AVIATION MEDICINE PRACTICE**

NRTC REVISED: 1991

NAVEDTRA NUMBER: 13145-A

ASSIGNMENTS: 9 POINTS: 18

**MAXIMUM COMPLETION TIME: 120 DAYS**

The course addresses the physiology of flight, aviation psychology, and special considerations in aviation medicine concerning medications, personnel management, alcohol abuse, fatigue, aeromedical evacuation, emergency escape, and problems related to aircraft accidents. Special emphasis is placed on methods of selecting well-adjusted personnel who are physically equipped to withstand the severe demand of flight training.

**SPECIAL INFORMATION:** This course is written for **COMMISSIONED OFFICERS. COMPLETION OF THIS COURSE DOES NOT GRANT ANY SPECIAL CERTIFICATION.** The text, *U.S. Naval Flight Surgeon's Manual*, 3rd Edition, 1991, is provided with the course.

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##### **BLOOD COMPONENT THERAPY**

NRTC REVISED: 1997

NAVEDTRA NUMBER: 13121-E

ASSIGNMENTS: 2 POINTS: 4

**MAXIMUM COMPLETION TIME: 90 DAYS**

This course is designed to provide the clinicians and other Medical Department personnel with key information on blood and component products available from the blood bank. It includes the fractionation of fresh blood, concentration of the formed cellular elements, and the coagulation factors in each product. Indications for the use and the calculation of the quantity needed for the various medical disorders requiring hemotherapy are presented.

**SPECIAL INFORMATION:** The text, *Blood Transfusion Therapy, A Physician's Handbook*, 1996, is provided with the course and **MUST BE RETURNED.**

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# NAVAL SCHOOL OF HEALTH SCIENCES

## NONRESIDENT TRAINING COURSES

### **CLINICAL ASPECTS OF COLD WEATHER**

NRTC REVISED: 1991  
NAVEDTRA NUMBER: 13147-A  
ASSIGNMENTS: 2 POINTS: 4

**MAXIMUM COMPLETION TIME: 90 DAYS**

Course explores the epidemiology of cold injuries and other common conditions occurring during cold environment deployments. Emphasis is placed on host and environmental factors, subjecting humans to cold injuries. The signs, symptoms, treatment and prevention of specific freezing and nonfreezing injuries are addressed.

**SPECIAL INFORMATION:** The text, *Clinical Aspects of Cold Weather Operations*, HSETC 1982 (Revised 1991), is provided with the course.

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### **COMBAT CASUALTY CARE FOR IDC**

NRTC: 1996  
NAVEDTRA NUMBER: 13132  
ASSIGNMENTS: 5 POINTS: 8

**MAXIMUM COMPLETION TIME: 90 DAYS**

This course is designed for Independent Duty Corpsman personnel as a reference for the standardized care of the wounded as necessitated by improvements and innovations experienced in our most recent military conflicts.

**SPECIAL INFORMATION:** The text, *Emergency War Surgery, Second United States Revision, NATO Handbook 1988* is provided and **MUST BE RETURNED**.

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### **COMBAT CASUALTY CARE FOR NURSES**

NRTC REVISED: 1993  
NAVEDTRA NUMBER: 13131  
ASSIGNMENTS: 5 POINTS: 8

**MAXIMUM COMPLETION TIME: 90 DAYS**

This course is designed for Nurse Corps personnel as a reference for the standardized care of the wounded as necessitated by improvements and innovations experienced in our most recent military conflicts.

**SPECIAL INFORMATION:** The text, *Emergency War Surgery, Second United States Revision, NATO Handbook 1988*, is provided and **MUST BE RETURNED**.

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### **CONTROL OF COMMUNICABLE DISEASES IN MAN**

NRTC REVISED: 1997  
NAVEDTRA NUMBER: 13111-A  
ASSIGNMENTS: 5 POINTS: 8

**MAXIMUM COMPLETION TIME: 90 DAYS**

Course highlights information on the control of communicable diseases. Included are the identification of each disease by clinical nature, laboratory diagnosis, and differentiation from allied or related diseases. Emphasis is placed on occurrence, infectious agent, reservoir, mode of transmission, incubation period, period of communicability, susceptibility and resistance, methods of control, and systems of reporting communicable disease.

**SPECIAL INFORMATION:** The text, *Control of Communicable Diseases in Man*, 16th Edition, American Public Health Association, 1996, is provided and **MUST BE RETURNED**.

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### **DECEDENT AFFAIRS**

NRTC REVISED: 1992  
NAVEDTRA NUMBER: 13154  
ASSIGNMENTS: 2 POINTS: 4

**MAXIMUM COMPLETION TIME: 90 DAYS**

Course provides a concise coverage of the duties and responsibilities of personnel concerned with care-of-the-dead procedures. Highlights the search, recovery, identification, preservation, and disposition of the deceased for whom the Navy is responsible.

**SPECIAL INFORMATION:** The text, *Decedent Affairs Manual*, BUMEDINST 5360.1D, is provided with the course and **MUST BE RETURNED**.

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# NAVAL SCHOOL OF HEALTH SCIENCES NONRESIDENT TRAINING COURSES

## **ENVIRONMENTAL HEALTH AND SAFETY**

NRTC REVISED: 1995  
NAVEDTRA NUMBER: 13126  
ASSIGNMENTS: 15 POINTS: 25

**MAXIMUM COMPLETION TIME: 120 DAYS**

Course is designed to examine the control of communicable and certain noninfectious diseases; environmental engineering planning and impact analysis; water supply; wastewater treatment and disposal; solid waste management; air pollution and noise control; radiation uses and protection; food protection; recreation areas and temporary residences; vector and weed control and pesticide use; residential and institutional environment; and administration.

**SPECIAL INFORMATION:** The text, *Environmental Engineering and Sanitation*, 4th Edition, by Joseph A. Salvator, 1992, is provided and **MUST BE RETURNED**.

## **FOOD SERVICE SANITATION**

NRTC REVISED: 1992  
NAVEDTRA NUMBER: 13100  
ASSIGNMENTS: 3 POINTS: 6

**MAXIMUM COMPLETION TIME: 90 DAYS**

This course addresses the regulations and procedures for the procurement, storage, preparation, serving, and disposition of food. Discusses the processes and procedures for the inspection of food service facilities.

**SPECIAL INFORMATION:** The text, *Manual of Naval Preventive Medicine Chapter 1, Food Service Sanitation*, NAVMED P-5010-1 (Revised 1991), is provided with the course.

## **HEAT STRESS**

NRTC REVISED: 1986  
NAVEDTRA NUMBER: 13128  
ASSIGNMENTS: 1 POINTS: 3

**MAXIMUM COMPLETION TIME: 90 DAYS**

Course provides information essential to a preventive program to control the adverse effects of high temperatures on Armed Forces personnel. Addresses the diagnosis and treatment of clinical syndromes resulting from overexposure to heat.

**SPECIAL INFORMATION:** The text, *Prevention, Treatment and Control of Heat Injury*, 1980 (TB MED 507; NAVMED P-5052-5; AFP 160-1), GPO, is provided with the course.

## **IMMUNIZATION PROGRAM**

STUDENT GUIDE REVISED: 1990  
NAVEDTRA NUMBER: 13152

TEXT REVISED: 1990  
NAVEDTRA NUMBER: 13153

FINAL EXAM: 1 POINTS: 4

**MAXIMUM COMPLETION TIME: 90 DAYS**

Course is designed for medical department personnel who are nonphysician health care providers. Course is based on NAVMEDCOMINST 6320.3, Immunizations and Chemoprophylaxis. It presents practical instruction on determining patient eligibility, screening patients, administering immunizations appropriately, and counseling patients. Specific immunizing agents and adverse reactions are also discussed. A brief overview of the immune system is given to enhance understanding of the immunization program. The course design is new. It requires the **SUCCESSFUL COMPLETION OF AN OPEN BOOK PROCTORED FINAL EXAM**. It is a prerequisite for an HSETC developed On-the-Job Training Program (which is optional).

**SPECIAL INFORMATION:** Students are required to take and pass a proctored final exam after completing the course. To apply for an exam, fill out the form on page 112 of the student guide and mail the form to:

Commanding Officer (Code 38)  
Naval School of Health Sciences  
1001 Holcomb Road  
Portsmouth, VA 23708-5200

## NAVAL SCHOOL OF HEALTH SCIENCES NONRESIDENT TRAINING COURSES

### **MEDICAL AND DENTAL MATERIEL MANAGEMENT**

NRTC WRITTEN: 1996  
NAVEDTRA NUMBER: 13120  
ASSIGNMENTS: 2 POINTS: 3

**MAXIMUM COMPLETION TIME: 90 DAYS**

Course provides military and civilian personnel with a working knowledge of how medical and dental materiel management is performed in our treatment facilities. It is designed to serve as a "primer" for individuals involved in materiel management or those who want to know more about how the "system" works. It covers the basics of materiel management: inventory, warehouse, procurement, equipment, and health care contracting. It also provides training on Standards of Conduct requirements. A pre-test is available upon request.

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### **NAVAL DOCTRINE'S LINK TO OPERATIONAL HEALTH SERVICE SUPPORT**

NRTC WRITTEN: 1997  
NAVEDTRA NUMBER: 13158  
ASSIGNMENTS: 4 POINTS: 6

**MAXIMUM COMPLETION TIME: 90 DAYS**

Course consists of four modules designed to provide a comprehensive survey of naval doctrine ranging from definitions and fundamentals to Health Service Support application. The modules should be completed in sequential order to understand the doctrine process flow. All four modules must be completed for course credit. The modules are:

1. Naval Perspectives for Military Doctrine Development: provides definitions; historical perspective; view of doctrine from a military perspective; and influences on and of doctrine.
2. Naval Doctrine Publication 1 - Naval Warfare; addresses who we are as naval forces, what we do, how we fight, how we operate in the Joint environment; and where we are headed into the 21st century.
3. Naval Doctrine Publication 4- Naval Logistics: addresses the fundamentals of naval logistics; naval logistics planning and information support; and naval logistics operations.
4. Naval Warfare Publication 4-02 - Operational Health Service Support; provides information on the general concepts, organization, and procedures employed for providing fleet Health Service Support.

**SPECIAL INFORMATION:** The texts, *Naval Perspectives for Military Doctrine Development*, *NDP 1 Naval Warfare*, *NDP 4 Naval Logistics*, and *NWP 4-02 Operational Health Service Support*, are provided with the course and **MUST BE RETURNED**.

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# NAVAL SCHOOL OF HEALTH SCIENCES

## NONRESIDENT TRAINING COURSES

### **PHYSICAL EXAMINATIONS AND HEALTH CARE TREATMENT RECORDS**

NRTC REVISED: 1993  
NAVEDTRA NUMBER: 13148-A  
ASSIGNMENTS: 6 POINTS: 9

#### **MAXIMUM COMPLETION TIME: 90 DAYS**

Course defines procedures for the physical examinations for induction, enlistment and appointment to the commissioned rank of the naval service. Explains the physical standards for special examinations such as those for aviation, submarine, and diving service personnel, previously hospitalized patients, and personnel discharged or released from activity duty. Includes policies and procedures guiding the purpose, custody protocols, and events requiring the opening and closing of the military health treatment record.

**SPECIAL INFORMATION:** The text, Chapters 15 & 16 of the *Medical Department Manual, P-117*, is provided with the course.

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### **PREVENTIVE MEDICINE FOR GROUND FORCES**

NRTC REVISED: 1997  
NAVEDTRA NUMBER: 13112  
ASSIGNMENTS: 2 POINTS: 4

#### **MAXIMUM COMPLETION TIME: 90 DAYS**

Course is designed for medical department personnel to provide preventive medicine information essential for personnel operating in field environments. It covers water supply sanitation, food service in the field, waste disposal methods in the field, and disease control. It also provides an overview of prevention of heat and cold injuries.

**SPECIAL INFORMATION:** The text, Manual of Naval Preventive Medicine, Chapter 9, Preventive Medicine for Ground Forces, NAMVED P-5010-1 (rev 1991) is provided with the course. This course may be downloaded from the Internet at website:  
<http://ehc40.med.navy.mil>

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### **PRINCIPLES OF EPIDEMIOLOGY**

NRTC REVISED: 1990  
NAVEDTRA NUMBER: 13123-A  
ASSIGNMENTS: 6 POINTS: 18

#### **MAXIMUM COMPLETION TIME: 90 DAYS**

Course is designed for medical department personnel. The Center for Disease Control (CDC) Course titled "Principles of Epidemiology" (3030-G). Explains the concepts, principles, and methods useful in the surveillance and investigation of communicable diseases. It is highly recommended that individuals contemplating enrollment have a basic knowledge of both microbiology and communicable disease control. The course is NOT a study of the epidemiology of specific diseases.

**SPECIAL INFORMATION:** The text, *Principles of Epidemiology, Self Study Course, 3030-G 1988*, is provided with the course.

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### **STANDARD FIRST AID**

NRTC REVISED: 1995  
NAVEDTRA NUMBER: 82081-A  
ASSIGNMENTS: 5 POINTS: 8

#### **MAXIMUM COMPLETION TIME: 90 DAYS**

A basic reference in the field of first aid.

**THIS COURSE WILL BE OBSOLETE 1/1/98.**

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### **STANDARD FIRST AID**

NRTC REVISED: 1997  
NAVEDTRA NUMBER: 13119  
ASSIGNMENTS: 8 POINTS: 12

#### **MAXIMUM COMPLETION TIME: 90 DAYS**

A basic reference in the field of first aid.

**SPECIAL INFORMATION:** This course may be downloaded from the Internet at website:  
<http://ehc40.med.navy.mil>

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# NAVAL SCHOOL OF HEALTH SCIENCES NONRESIDENT TRAINING COURSES

## ***TREATMENT OF CHEMICAL AGENT CASUALTIES***

NRTC REVISED: 1991

NAVEDTRA NUMBER: 13116-B

ASSIGNMENTS: 3 POINTS: 6

### **MAXIMUM COMPLETION TIME: 90 DAYS**

Presents important techniques for battlefield treatment of chemical agent casualties and methods of protecting personnel from chemical agents. Explains the physiological and psychological effects of each agent and the recommended treatment of each.

**SPECIAL INFORMATION:** The text, *Treatment of Chemical Agent Casualties and Conventional Military Chemical Injuries*, NAVMED P-5041, February 1990, is provided with the course.

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**INSTRUCTIONS TO APPLICANT**

1. Fill in boxes A through I below.
2. All boxes must be completed or the application will be returned.
3. Mail application to:  
Commanding Officer (Code 38)  
Naval School of Health Sciences  
1001 Holcomb Road  
Portsmouth, Virginia 23708-5200
4. If you have any questions regarding course materials or course offerings, please call commercial (757) 953-7627 or FAX (757) 953-6956 or E-MAIL: pnh9jak@pnh10.med.navy.mil

**PRIVACY ACT STATEMENT**

Under the authority of Title 5 USC 301, information regarding your military or other DOD status is requested in order to evaluate individual applications for enrollment in the Naval Correspondence Course program. The information will also be used to process course completion letters and to construct and maintain an official and continuing manual and/or automated record of correspondence course participation. The cumulative course participation record will not be divulged without written authorization, to anyone other than those within DOD for official use in determining performance and effecting organizational and administrative management. The transmittal of pertinent information to persons/institutions of the individual selection may be effected by a signed statement by the individual concerned. Completion of this form is voluntary; however, failure to provide the required information will result in an inability to process this application.

**\*\* Print or Type \*\***

A. NAME (Last, First, Middle)	B. RANK/DESIGNATOR	C. SOCIAL SECURITY NO.
D. MARK STATUS AND BRANCH (If "OTHER" state branch; Drilling USNR is inactive) <input type="checkbox"/> ACTIVE <input type="checkbox"/> INACTIVE <input type="checkbox"/> CIV <input type="checkbox"/> VA <input type="checkbox"/> USN <input type="checkbox"/> USNR <input type="checkbox"/> USPHS <input type="checkbox"/> IRR <input type="checkbox"/> USCG <input type="checkbox"/> USA <input type="checkbox"/> USAF <input type="checkbox"/> FOREIGN <input type="checkbox"/> OTHER	E. COMMAND/HOME ADDRESS	F. APPLICANT'S ACTIVE DUTY RESERVE CENTER ADDRESS (if applicable)
G. REQUESTED COURSE NAME/NUMBER:	H. DSN TELEPHONE NUMBER:	I. DAYTIME COMMERCIAL TELEPHONE NUMBER:

APPLICANT'S SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_

COURSE NAME			
ASSIGNMENT NUMBER	DATE RECEIVED	GRADE	ASSIGNMENT NUMBER
1.			7.
2.			8.
3.			9.
4.			10.
5.			11.
6.			12.
DATE COURSE MAILED TO MEMBER:		FINAL GRADE:	DATE COMPLETION LETTER SENT TO MEMBER:

NSHSPTSVA 1550/1 (10-95)

Application For Enrollment in Correspondent Course

**NAVAL SCHOOL OF HEALTH SCIENCES  
NONRESIDENT TRAINING COURSES**

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# **PART 4** **NAVAL DENTAL SCHOOL** **NONRESIDENT TRAINING COURSES**

## **GENERAL INFORMATION**

The following nonresident training courses are administered by the Naval Dental School. The Naval Dental School enrolls the student, grades his or her assignments, and certifies satisfactory completion.

To request an application write to:

**COMMANDING OFFICER (CODE NDS11A)  
NATIONAL NAVAL DENTAL CENTER  
8901 WISCONSIN AVE  
BETHESDA, MD 20889-5602**

or call:

**DSN: 295-0205    COMM: (301) 295-0205  
e-mail: nndOkmd@nnd10.med.navy.mil**

**\*\*DO NOT SEND APPLICATION TO NETPDTC\*\***

Occasionally, shortages of course materials produce waiting lists. For this reason, applicants should indicate a second choice of course, if interested. Applicants may enroll in only one course at a time.

These courses are UNCLASSIFIED and are recommended for the graduate dental officer only. Applications of medical officer personnel whose specialties are included in Officer Designator Group IV will be considered on an individual basis. Courses are not available to dental students, dental technicians, or hospital corpsmen.

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## **Complete Dentures**

(Under Revision)

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## **Dental Materials**

NAVEDTRA 13149  
6 ASSIGNMENTS - 12 POINTS

This course provides the general dentist with the information needed to understand the physical and chemical properties of dental materials and their uses, manipulation, and behavior in the oral cavity. The course presents basic background information on cements, direct esthetic restorations, amalgam, impression material, noble and precious alloys, cast and wrought base metals, ceramics, ceramic-metal systems, and polymers. Text: *Restorative Dental Materials*, edited by R.G. Craig, ed. 7, The C.V. Mosby Company, 1985.

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## **Endodontics**

NAVEDTRA 13151  
7 ASSIGNMENTS - 16 POINTS

This revised course presents information on the latest and proven techniques in endodontics. The following topics are covered: the science of endodontics, including pulp structure and function, pathology, microbiology, and pulpal reaction to caries and dental procedures; the art of endodontics, including diagnostic procedures, endodontic emergencies, and case selection and treatment planning; information on preparation for treatment, endodontic armamentarium, sterilization, and access openings; instruments and materials, obturation of the root canal system, and pedodontic-endodontic treatment; information concerning traumatic injuries, and root resorption; endodontic-periodontal relations and surgical endodontics; and bleaching of vital and nonvital teeth, postendodontic restoration, and failures in therapy. Text: *Pathways of the Pulp*, S. Cohen and R. C. Burns, ed. 4, The C. V. Mosby Company, 1987.

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## **Fixed Partial Denture Prosthodontics**

(Under Revision)

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## **Occlusion**

(Under Revision)

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## **Operative Dentistry**

NAVEDTRA 13146  
6 ASSIGNMENTS - 12 POINTS

This course provides general dentists with an opportunity to enhance their skills in all areas of operative dentistry, including prevention, interception, preservation, and restoration. The text emphasizes the practical aspects of clinical practice, based on the basic concepts of operative dentistry. Therefore, the concepts of clinical dental anatomy, histology, physiology, occlusion, and cariology are discussed before restorative treatment. Text: *The Art and Science of Operative Dentistry*, by C. M. Sturdevant, et.al., the C. V. Mosby Company, 1985.

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## PART 4

### NAVAL DENTAL SCHOOL

### NONRESIDENT TRAINING COURSES

#### ***Oral Diagnosis***

NAVEDTRA 13150

8 ASSIGNMENTS - 16 POINTS

The purpose of this course is to enhance the clinician's ability to distinguish among similar appearing lesions by presenting significant and unique characteristics of relatively common oral lesions. Text: *Differential Diagnosis of Oral Lesions*. N.K. Wood and P.W. Goaz, ed. 3, The C. V. Mosby Company, 1985. (Unit 1, 1-4, 8 Pts; Unit 2, 5-8, 8 Pts).

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#### ***Panoramic Radiography***

NAVEDTRA 13140

4 ASSIGNMENTS - 9 POINTS

Focus of this course is on the use of the panoramic x-ray machine and the interpretation of panoramic radiographs. It includes a discussion of the problems practitioners encounter when applying the technique. Text: *Principles and Practices of Panoramic Radiology*, O. E. Langland, R. P. Langlais, and Charles R. Morris, W. B. Saunders Company, 1982.

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#### ***Periodontics***

NAVEDTRA 13157

9 ASSIGNMENTS - 18 POINTS

The objective of this course is to help enrollees improve their ability to detect or foresee conditions conducive to periodontal diseases and to correct such conditions or prevent them from developing. The course consists of 9 assignments and covers such subjects as the structure of the periodontium; the etiology, epidemiology and pathogenetic mechanisms of periodontal diseases; the types of periodontal diseases; therapeutic judgment; periodontal therapy; and the treated case. Text: *Periodontics in the Tradition of Orban and Gottlieb*, ed. 6, Daniel A. Grant, Irving B. Stern, and Max Listgarten, The C. V. Mosby Company, St. Louis, 1988. (Unit 1, 1-6, 12 Pts.; Unit 2, 7-9, 6 Pts.)

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#### ***Pharmacotherapeutics in Dental Practice***

NAVEDTRA 13110-C

10 ASSIGNMENTS - 18 POINTS

The purposes of this course are to emphasize pharmacology's practical importance in dentistry in as concise a manner as possible; to provide information on drugs normally prescribed in dentistry and, for those drugs that are not normally prescribed, to discuss their effects on the dental patient and the dentist's role in the management of such patients; and to serve as a quick and ready review for the busy clinician. Text: *Clinical Pharmacology in Dental Practice*, ed 4. SV Holroyd, RL Wynn, B Requa-Clark, CV Mosby, St. Louis, 1988. (Unit 1, 1-6, 12 Pts.; Unit 2, 7-10, 6 Pts.)

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#### ***Removable Partial Dentures***

NAVEDTRA 13104

8 ASSIGNMENTS - 16 POINTS

This course provides the general dentist with a review of basic principles and time-tested, practical procedures for treating partially edentulous patients. The text covers partial denture construction from initial contact with the patient to postplacement care of oral structures. The eight assignments deal with components of removable partial dentures and their biomechanical characteristics, denture bases, surveying, principles of design of restorations, diagnosis, treatment planning, and treatment. Text: *McCracken's Removable Partial Prosthodontics*, D. Henderson, G. P. McGivney, and D. J. Casleberry, 7th Ed. 1985. (Unit 1: 1-6, 12 Pts.; Unit 2: 7 and 8, 4 Pts.)

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#### ***Temporomandibular Disorders***

NAVEDTRA 13108

2 ASSIGNMENTS - 4 POINTS

NEW 1996

The purpose of this course is to improve the participants ability to assess and diagnose temporomandibular disorders (TMD), and to find the best treatment in managing patients with this condition. The course provides practical guidelines for the classification, assessment and management of patients with temporomandibular disorders. The course will cover the etiology of temporomandibular disorders and will discuss treatment and/or referral options emphasizing a team approach when managing patients with TMD. Text: *Temporomandibular Disorders*, C. McNeill, ed. Quintessence Publishing Co., Inc., Chicago, 1993.

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## **PART 5**

# **SHIPBOARD TRAINING ENHANCEMENT PROGRAM**

Naval Education and Training Professional Development and Technology Center

1 December 1996

### **SHIPBOARD TRAINING ENHANCEMENT PROGRAM CATALOG**

#### **INTRODUCTION**

This revised Shipboard Training Enhancement Program Catalog is a listing of packages presently available for fleet use. All packages are designed to be transportable -- that is, according to CNETINST 1500.12B, Glossary of Navy and Education Training Terminology, "capable of and intended to be transported to the location of the target student population." They are also intended to serve a cross section of Navy personnel in all warfare specialties. Please share this catalog with others in your command.

#### **OTHER SOURCES OF TRAINING**

Other sources of specialized on board training are listed below:

Type of materials: Submarine On Board Training (OBT)  
Catalog: Submarine OBT Products Catalog  
Address:

COMSUBGRU 2  
Naval Submarine Base, New London  
Code N-24  
Groton, CT 06349-5100

Phone: DSN 241-3737/2934.

Type of materials: Individual Personnel Qualification Standards (PQS) packages

Catalog: PQS Catalog (NAVEDTRA 43100-5 series) This information is also available on a CD-ROM which is available through supply channels. The stock number is 0501-LP-478-1700.

Address:

PQS Development Group  
6490 Sautley Field Road  
Code 34  
Pensacola, FL 32509-5239

Phone: DSN 922-1736

Type of materials: Electronic Warfare Training Materials (ASTAP and NEWTAP OBT packages) Naval Electronic Warfare Training Aids Program (NEWTAP) is the software and courseware distribution house for the EWOB, and supports both the Pacific and Atlantic fleets. Products can be obtained by letter or message request.

Multi-ship training packages are available from NEWTAP. These are combat systems training scenarios built for five to twenty ships. The exercises provide a coordinated EW environment for Tactical Action Officers, combat systems teams, and EW team training. The scenarios provide signal simulation for the AN/SLQ-32 electronic warfare suite and for the Lightweight Electronic Warfare Trainer (LEWT). Packages are provided to requesting commands and units.

Single ship training package is also available. This package provides selections from the multi-ship scenarios tailored for individual ship or unit training. NEWTAP has a limited number of LEWT Model 1 devices for loan. The LEWT can be used to stimulate the front end of most EW receivers, either directly or with common test equipment found on board. Additionally, the LEWT can stand alone, demonstrating signal parameters in a tabular format while providing an audio presentation.

Catalogs: NAVEDTRA S105K and NAVEDTRA 105K, Acoustic Sensor Training Aids Catalogs and NAVEDTRA 104, Electronic Warfare Training Aids Catalog

Address:

Commanding Officer  
ATTN: NAVSTAD (N34)  
Fleet Anti-Submarine Warfare Training Center,  
Pacific  
33000 Nixie Way  
San Diego, CA 92147-5104

Phone: DSN 524-6295, Commercial (619)  
524-6295. Type of materials: Master Training

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### SHIPBOARD TRAINING ENHANCEMENT PROGRAM

Plan, Volume IV, dated 23 September 1992.  
Surface Training System Curriculum, Media and  
Training Delivery Systems  
Address:

Commander  
Naval Surface Reserve Force  
Code N73  
New Orleans, LA 70146.

DSN 363-1257, Commercial (504) 948-1257

Type of materials: Computer Based Training, On-  
Board Maintenance Training and Navy Training Plans

The Naval Surface Warfare Center, Carderock  
Division Technical Training Support Department  
(Code 1362) develops technical training curriculum  
and multimedia materials (Computer Based Training  
and Training Videos) to be used by the Department of  
Defense. The department specializes in development  
of operator, maintenance and refresher type technical  
training. Training products developed encompass hull,  
mechanical, electrical and propulsion systems,  
subsystems and equipment.

The training materials are available upon request or  
can be provided as onboard training by highly skilled  
subject matter experts, at a minimal cost. Course  
lengths vary from one to ten days.

In addition to curriculum and multimedia development,  
the department develops Manpower, Personnel and  
Training Reports (MPTRs) and automated Navy  
Training Plans (NTPs). Both documents are integral  
elements of the Navy's training process. They serve as  
the Chief of Naval Operation's official statement of  
billets, personnel and training requirements necessary  
to enable introduction and operational employment of  
a new or existing development.

**Catalog:** Catalog of NSWCCD-SSES Technical  
Training Courses

**Address:** NSWCCD-SSES Code 1362  
Philadelphia Naval Base  
Philadelphia, PA 19112

**POC:** Bob Johnson

**Phone:** (215) 897-1585  
DSN 443

**email:** johnsonr@mailgate.navsses.navy.mil

Type of materials: ICW and audiovisual

materials Catalog:

Visual Information

Productions Catalog

**Address:**

NETPDTC NREMC

9770 Decatur Ave Ste 250

Norfolk, VA 23511-3292

**POC:**

D. Kerley or S. Freeman

**Phone:**

DSN 564-4011/1468

COM (757) 444-4011/1468

#### ADDITIONS AND CHANGES:

Additions which have broad non-tactical application  
throughout the Navy are solicited. If you have  
developed training software for your own use and are  
willing to share it, we would like to receive a copy  
for review. A read.me file in ASCII format with a  
brief description of how to install the system and  
what it does would be useful. If it has widespread  
applications, we would then like to add it to the  
Navy-wide STEP inventory. We would also like to  
know of any "bugs" or errors you find in our  
packages. While they have been carefully screened  
to eliminate as many errors as possible, a few  
occasionally get past us. If you should discover one,  
please notify us so that we may correct it prior to the  
next revision. The format in Appendix A is  
provided for additions and changes. Send to:

Commanding Officer  
Naval Education and Training Professional  
Development and Technology Center  
(NETPDTC)  
6490 Saufley Field Road  
Attn: N71  
Pensacola, Florida 32509-5239

Phone: DSN 922-1640, COMMERCIAL (904)  
452-1640

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### SHIPBOARD TRAINING ENHANCEMENT PROGRAM

#### HOW TO ORDER STEP PRODUCTS:

##### Interactive Courseware (ICW):

As new ICW packages are developed, they are sent to the Type Commanders for final review and approval for distribution. After they have been released, one copy (unless otherwise requested) of each STEP CD-ROM will be mailed directly to each command. If your command was not included in the initial distribution, additional copies of the ICW programs are stocked at the Navy General Visual Information Library located at the NETPDTC Electronic Media Center in Norfolk. Requests must be submitted in writing citing the required ICW, mailing address, point of contact, telephone number and Command UIC. **NOTE:** *ICW identified as commercial products are available on 5 1/4" disks on a one-month temporary loan basis only. Unless otherwise noted, Navy-produced ICW programs are available on the STEP CD-ROM or the ICW CD-ROM.*

##### Audiovisual Videotapes:

Audiovisual videotapes are available from the Navy General Visual Information Library located at the NETPDTC Electronic Media Center in Norfolk. Requests must be submitted in writing citing the production identification number (PIN), title, format (i.e., 3/4" U-matic, Beta, VHS or HI-8 videotape), mailing address, point of contact, telephone number and Command UIC. **NOTE:** *All commercial videotapes are available on a two-week temporary loan basis in only the format identified.*

Director  
NETPDTC NREMC  
9770 Decatur Ave, Ste 250  
ATTN: D. Kerley  
Norfolk, VA 23511-3292

Phone: DSN 564-4011/1468  
COM (757) 444-4011/1468

# PART 5

## SHIPBOARD TRAINING ENHANCEMENT PROGRAM

### INDEX OF SHIPBOARD TRAINING ENHANCEMENT PROGRAM PACKAGES

1 DECEMBER 1996

SORTED BY TITLE

TITLE	MEDIA				CLASSIFICATION	SUBJECT AREA	FEATURES
A-4 OBA	V	U	D				
AIR CONDITIONING AND REFRIGERATION EQUIP	C	U	M		ST		
AFLOAT HAZARDOUS MATERIAL FOR THE SUPERVISOR (A-322-0010)	C	U	D		ST		
AMERICA HURTS: THE DRUG EPIDEMIC	V	U	G				
AMMUNITION ADMINISTRATION (A-041-0103)	C	U	D		ST		
BARRON'S COMPUTER STUDY PROGRAM FOR THE SAT	C	U	G		ST		
BEATING THE ODDS - THE USS SAMUEL B ROBERTS	V	U	D				
CELESTIAL NAVIGATION	C	U	O		ST		
CLOSER LOOK	V	U	D				
CO2 AND PKP FIRE EXTINGUISHERS	V	U	D				
CODE OF CONDUCT	V	U	G				
CONDUIT FIRST YEAR ALGEBRA PARTS I AND II	C	U	G		ST		
CRACK: CHEAP AND DANGEROUS	V	U	G				
CRUEL SPIRITS: ALCOHOL AND VIOLENCE	V	U	G				
DAMAGE CONTROL - BATTLE LANTERN PMS	V	U	D				
DAMAGE CONTROL PETTY OFFICER INDOC (A-495-0400)	C	U	D		ST		
DAMAGE CONTROL - HAZARD AWARENESS KITS	S	U	D				
DANGER ZONE - YOUR HANDS	V	U	G				
DANGER ZONE - YOUR HEAD	V	U	G				
DWI DECISION	V	U	G				
ELECTRICITY/ELECTRONICS TOPICS	C	U	G		ST		
ELECTROMAGNETIC INTERFERENCE (EMI) CONTROL (A-198-0001)	C	U	D		ST		
ESD THE INVISIBLE THREAT	V	U	O				
EYE SAFETY	V	U	G				
FIRE ON THE FLIGHT DECK	V	U	D				
FIRESTATIONS AND RELATED EQUIPMENT	V	U	D				
FIRST AID FOR BURNS	V	U	G				
FIRST AID FOR BURNS AND FRACTURES	V	U	G				
FIRST AID FOR WOUNDS	V	U	G				
FLAGS	C	U	O		ST		
FOOD SERVICE SANITATION (B-322-2103)	C	U	G		ST		
GENERAL PURPOSE ELECTRONIC TEST EQUIPMENT (GPETE) (A-670-0041)	C	U	G		ST		
GRAB FOR YOUR LIFE (EEBD)	V	U	G				
HALON 1301 FIRE EXTINGUISHING SYSTEM	S	U	D				
HARD TARGET	V	U	O				
HEARING SAFETY	V	U	G				
INTEGRATED SHIPBOARD MAINTENANCE SUPPORT (ISMS) (A-500-0041)	C	U	M		ST		
IF ONLY	V	U	G				
LCAC CORROSION CONTROL (A-060-0001)	C	U	D		ST		
LOOKOUT TRAINING (A-063-0001)	C	U	G		ST		
LUBRICATION TECHNIQUES	V	U	M				
MAINTENANCE OF WATERTIGHT BOUNDARIES	V	U	D				
MANEUVERING BOARD	C	U	O		ST		
MORSE CODE	C	U	O		ST		
MOTOR CONTROL FUNDAMENTALS	V	U	M				

# PART 5

## SHIPBOARD TRAINING ENHANCEMENT PROGRAM

TITLE	MEDIA CLASSIFICATION				SUBJECT AREA FEATURES
NAVIGATION SIMULATOR	C	U	O		ST
PIPING AND VENT SYSTEM MARKING	V	U	D		
P-100 PORTABLE PUMP (A-652-0001)	C	U	D		ST
P-250 MOD 2 PORTABLE PUMP OPERATION	V	U	D		
PERSONAL TOUCH: JASON ROBARDS ON ALCOHOLISM	V	U	G		
PLASTICS WASTE PROCESSOR (CIN TBD)	C	U	D		ST
PRIVATE TUTOR - BASIC NUMBERS CONCEPTS	C	U	G		ST
PRIVATE TUTOR - MATH COMPUTATION SKILLS	C	U	G		ST
PRIVATE TUTOR - PREPARING FOR GEOMETRY AND ALGEBRA	C	U	G		ST
PRIVATE TUTOR - SOLVING MATH WORD PROBLEMS	C	U	G		ST
PRIVATE TUTOR - VERSION 2.0 PROGRAM DISK	C	U	G		ST
PULPER, SMALL AND LARGE (CIN TBD)					
QUALITY OF LIFE: BACK INJURY PREVENTION	V	U	G		
QUALITY OF LIFE: DRUG AND ALCOHOL ABUSE PREVENTION	V	U	G		
QUALITY OF LIFE: HEALTH AND PHYSICAL READINESS	V	U	G		
QUALITY OF LIFE: STRESS MANAGEMENT/HIGH BLOOD PRES	V	U	G		
QUALITY OF LIFE: TOBACCO USE EDUCATION AND PREVENT	V	U	G		
QUALITY OF LIFE: WEIGHT AND FAT CONTROL/NUTRITION	V	U	G		
RULE MASTER	C	U	O		ST
RULES OF THE NAUTICAL ROAD	C	U	O		ST
SECOND NATIONAL DRIVING TEST: ONE FOR THE ROAD	V	U	G		
SUPPLEMENTAL EMERGENCY EGRESS DEVICE					
(SEED) MAINTENANCE TRAINING (A-495-0003)	C	U	D		ST
SHIPBOARD SUPPLEMENTAL EMERGENCY EGRESS DEVICE					
(SEED) MANAGEMENT TRAINING (A-495-1112)	C	U	D		ST
SEMAPHORE PRACTICE	C	U	O		
SHIPBOARD ASBESTOS EMERGENCY RESPONSE (A-760-2165)	C	U	D		ST
SHIPBOARD DAMAGE CONTROL SHORING	V	U	D		
SHIPBOARD FIRE FIGHTING - PART 1 - AGENTS	V	U	D		
SHIPBOARD FIRE FIGHTING - PART 2 - BASIC PROCEDURES	V	U	D		
SHIPBOARD FIRE FIGHTING - PART 3 - SPEC HAZ FIRES	V	U	D		
SHIPBOARD SEWAGE COLLECTION, HOLDING, AND TRANSFER					
(CHT) SYSTEMS (A-652-2141)	C	U	M		ST
SHIP 3M WATCHSTATION 301 MAINTENANCE PERSON	C	U	M		ST
SHIP 3M OPERATIONS/ADMINISTRATION (J-500-0025)	C	U	M		ST
SOLID STATE MOTOR CONTROLS	V	U	M		
STABILITY FOR NAVAL VESSELS	C	U	O		ST
STREET SMARTS: HOW TO AVOID BEING A VICTIM	V	U	G		
TAO THREAT RECOGNITION TRAINING	C	S	O		ST
TARGET BY CHOICE	V	U	G		
TECHNICAL SURVEILLANCE COUNTERMEASURES	V	S	G		
TELEPHONE SECURITY - YOUR PIECE OF THE PUZZLE	V	U	G		
VALVES	V	U	M		

### DESCRIPTOR KEY

<b>MEDIA</b> C: COMPUTER AIDED INSTRUCTION (CAI) I: INTERACTIVE VIDEO DISK (IVD) S: SOUND ON SLIDES V: VIDEO TAPE O: OTHER	<b>SECURITY</b> U: UNCLASSIFIED C: CONFIDENTIAL S: SECRET
<b>SUBJECT AREA</b> A: ADMINISTRATION D: DAMAGE CONTROL G: GENERAL MILITARY TRAINING (GMT) M: MAINTENANCE O: OPERATIONS	<b>FEATURES</b> S: SELF-PACED T: TEST INCLUDED

## **PART 5**

# **SHIPBOARD TRAINING ENHANCEMENT PROGRAM**

### **PACKAGE DESCRIPTIONS**

#### **THE A-4 OBA**

**PIN:** 802006 DN

**SUGGESTED AUDIENCE:** All shipboard firefighting/engine room personnel.

**LENGTH/TIME:** 20 minutes

**HARDWARE FOR PRESENTATION:** Videotape Player (3/4" U-matic, VHS, BETA and HI-8)

**DESCRIPTION:** In fighting a shipboard fire, your best friend can be the oxygen breathing apparatus OBA-4. Recent experiences in shipboard fire fighting have shown that some personnel are not familiar with or have forgotten how to wear the OBA safely and effectively. The OBA-4 is a relatively simple apparatus, but you have to know how to use it and wear it correctly. When worn properly it will isolate your own breathing system from a contaminated atmosphere and provide you with a self contained supply of oxygen. This program demonstrates the proper procedures for donning, using and wearing it correctly.

#### **AIR CONDITIONING AND REFRIGERATION EQUIPMENT**

**IDENTIFICATION NUMBER:** CA10037R0591

**SUGGESTED AUDIENCE:** All officers and enlisted personnel desiring to learn about air conditioning and refrigeration equipment.

**AVAILABILITY:** Issued on ICW CD-ROM only

**LENGTH/TIME:** Variable

**HARDWARE FOR PRESENTATION:** 386 computer with hard-disk and CD-ROM drive, VGA color monitor, and MS-DOS 5.0 or compatible.

**RESTRICTIONS:** This is a Navy-owned package. Its use is unrestricted.

**DESCRIPTION:** This package covers the operation and preventive maintenance of shipboard air conditioning and refrigeration equipment.

#### **A CLOSER LOOK**

**PIN:** 803502

**SUGGESTED AUDIENCE:** All hands

**LENGTH/TIME:** 28 minutes

**HARDWARE FOR PRESENTATION:** Videotape Player (3/4" U-matic, Beta, VHS, and HI-8)

**DESCRIPTION:** Frequent and thorough zone inspections, followed by discrepancy correction, is an important tool for ensuring your ship is ready when called upon. This package and the companion booklet contain examples of common material deficiencies discovered by the Board of Inspection and Survey during Underway Material Inspections.

#### **AFLOAT HAZARDOUS MATERIAL FOR THE SUPERVISOR**

**IDENTIFICATION NUMBER:** A-322-0010

**SUGGESTED AUDIENCE:** Afloat workcenter supervisors

**AVAILABILITY:** STEP CD-ROM

**LENGTH/TIME:** 14 Hours

**HARDWARE FOR PRESENTATION:** Computer meeting STEP specifications, Windows® or higher, and a .WAV capable sound board

**RESTRICTIONS:** This is a Navy owned package. Its use is unrestricted.

**DESCRIPTION:** This Computer Based Training program is based on the Afloat Hazardous Material for the Supervisor training course taught at the Naval Occupational Safety, Health, and Environmental Training Center, Norfolk, Virginia. This course consists of 6 lessons: Introduction to the Forces Afloat HMC&M Program, The HMC&M Afloat, The HMC&M Communication and Information Systems, The HMC&M Program Elements in the Workcenter, HM Controls in the Workcenter, and HM Emergency Response and Planning.

#### **AMERICA HURTS: THE DRUG EPIDEMIC**

**PIN:** 504370

**SUGGESTED AUDIENCE:** General Military Training, NADSAP training DAPA & CAAC personnel

**LENGTH/TIME:** 34 minutes

**HARDWARE FOR PRESENTATION:** Videotape Player (Beta)

**RESTRICTIONS:** This is a commercial videotape available on a temporary loan basis to Navy commands only.

**DESCRIPTION:** An eye-opening look at the long term implications of a society, our own, where

## PART 5

### SHIPBOARD TRAINING ENHANCEMENT PROGRAM

youth is enticed by a morally corrupt model of easy financial success: the multibillion dollar drug industry. Frightening personal stories tell what no statistics can, stories of addiction and attempted rehabilitations, of families torn apart by violence and apathy, of teenage pushers making \$200 a day while hard working parents eke out a minimal subsistence, of babies kidnapped, gutted and stuffed to ship across international borders.

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#### AMMUNITION ADMINISTRATION

**Identification Number:** A-041-0103

**Classification:** Unclassified

**Target Audience:** E-5 and above assigned to perform ammunition administration duties.

**Availability:** Issued on STEP CD-ROM

**Length/Time:** 40 Instructional Hours

**Restrictions:** This is a Navy owned package. Its use is unrestricted.

**Hardware for Presentation:** 386 computer with hard-disk and CD-ROM drive, VGA color monitor, MS-DOS 5.0 or compatible and Windows 3.1 or compatible.

**Prerequisite Qualifications:** Personnel assigned ammunition administrative duties, E-5 or above, not recommended for foreign students.

**Description:** This course provides a description of the management system used for requisitioning ammunition, stock record cards pertinent to supply management of ammunition and the procedures for properly recording ammunition stock. This course provides the procedures to be followed for processing reporting requirements, follow-ups, modifications, incoming status, ammunition transaction reports, reversals, error processing and reconciliation reports. Preparing ammunition issuing/transferring documents is also covered. Included in this course is a practical exercise on Ammunition Stock Record Card (NALC or NIIN Master), Ammunition Lot/Location Card, Ammunition Serial/Location Card, Notice of Ammunition Reclassification (NAR), and DOD Single Line Item Release/Receipt Document, DD Form 1348-1.

#### BARRON'S COMPUTER STUDY PROGRAM FOR THE SAT

**IDENTIFICATION NUMBER:** CAI0026R0390

**SUGGESTED AUDIENCE:** All officers and enlisted personnel wanting to prepare for the Scholastic Aptitude Test (SAT)

**AVAILABILITY:** Available on 5 1/4" disks on a temporary loan basis only.

**LENGTH/TIME:** Variable

**HARDWARE FOR PRESENTATION:** Zenith Z-248 computer with dual-floppy disk or hard-disk system, EGA card, and color monitor, or compatible.

**RESTRICTIONS:** This is a commercial package purchased by the Navy under a license agreement. It may not be duplicated, copied, or reproduced in any way other than that specified in the license agreement.

**DESCRIPTION:** This package is a personal SAT tutor. It will work closely with the student, adapting to meet individual needs. It will point out problem areas, and help the student to work on them, and it will point out strengths as well. After working with the package, students should notice a marked improvement in performance.

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#### BEATING THE ODDS - THE USS SAMUEL B ROBERTS FIGHT FOR LIFE

**PIN:** 804635

**SUGGESTED AUDIENCE:** All hands

**LENGTH/TIME:** 30 minutes

**HARDWARE FOR PRESENTATION:** Videotape Player (3/4-inch U-matic, Beta, VHS and HI-8)

**DESCRIPTION:** This presentation is a real life account of the fire aboard USS S. B. Roberts and the fight for survival.

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#### CELESTIAL NAVIGATION

**IDENTIFICATION NUMBER:** CAI0006R0289

**SUGGESTED AUDIENCE:** All officers and enlisted personnel engaged in navigation.

**AVAILABILITY:** Issued on 5 1/4" disk (while supplies last), ICW CD-ROM and is available to .mil and .gov domains on the NETPDTC Homepage on the World Wide Web

(<http://www.cnet.navy.mil/netpdtc/netpdtc.htm>).

**LENGTH/TIME:** Variable

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### SHIPBOARD TRAINING ENHANCEMENT PROGRAM

**HARDWARE FOR PRESENTATION:** 386 computer with hard-disk and CD-ROM drive, VGA color monitor, and MS-DOS 5.0 or compatible.

**RESTRICTIONS:** This is a Navy-owned package. Its use is unrestricted.

**DESCRIPTION:** One part of this package provides instruction in the coordinate system and the navigation triangle. A second part allows the user to apply and draw his/her own navigation triangle.

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#### CO2 AND PKP FIRE EXTINGUISHERS

**PIN:** 804325

**SUGGESTED AUDIENCE:** All hands

**LENGTH/TIME:** 7 minutes

**HARDWARE FOR PRESENTATION:** Videotape Player (3/4" U-matic, Beta, VHS, and HI-8)

**DESCRIPTION:** Describes the maintenance procedures for CO2 and PKP fire extinguishers.

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#### CODE OF CONDUCT

**PIN:** 504488

**SUGGESTED AUDIENCE:** All hands

**LENGTH/TIME:** 28 minutes

**HARDWARE FOR PRESENTATION:** Videotape Player (3/4" U-matic, Beta, VHS, and HI-8)

**DESCRIPTION:** The code is defined; what it says and what it means. Former Vietnam POWs relate how the code helped them live through their experiences and to survive with honor.

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#### CONDUIT FIRST YEAR ALGEBRA PARTS I AND II

**IDENTIFICATION NUMBER:** CA10018R0189

**SUGGESTED AUDIENCE:** Anyone desiring to learn or review first year algebra.

**AVAILABILITY:** Available on 5 1/4" disks on a temporary loan basis only.

**LENGTH/TIME:** Variable

**HARDWARE FOR PRESENTATION:** Zenith Z-248 computer with dual-floppy disk or hard-disk system, EGA card, and color monitor, or compatible.

**RESTRICTIONS:** Commercial package purchased by the Navy under a license agreement. It may not

be duplicated, copied, or reproduced in any way other than that specified in the license agreement.

**DESCRIPTION:** This package presents a comprehensive course of study which covers all of the topics usually found in a traditional first-year algebra course. It is designed to be used by students learning or reviewing algebra in a classroom, computer laboratory, or at home. No special computer prerequisites are needed by students.

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#### CRACK: CHEAP AND DANGEROUS

**PIN:** 805361

**SUGGESTED AUDIENCE:** General Military Training, NADSAP training, DAPA & CAAC personnel

**LENGTH/TIME:** 7 minutes

**HARDWARE FOR PRESENTATION:** Videotape Player (Beta)

**RESTRICTIONS:** This is a commercial videotape available on a temporary loan basis to Navy commands only.

**DESCRIPTION:** This documentary presents the straight facts about this dangerous drug from those who know: former dealers, recovering addicts and drug enforcement agents. This video tells what crack is, why it's so popular, and how dangerous it is.

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#### CRUEL SPIRITS: ALCOHOL & VIOLENCE

**PIN:** 608981

**SUGGESTED AUDIENCE:** General military training, DAPA & CAAC personnel

**LENGTH/TIME:** 30 minutes

**HARDWARE FOR PRESENTATION:** Videotape Player (Beta)

**RESTRICTIONS:** This is a commercial videotape available on a temporary loan basis to Navy commands only.

**DESCRIPTION:** Join host Collin Siedor as he examines the relationship between alcohol and violence as he travels from a state prison to an emergency room, from the site of a drowning to a house engulfed by flames. At each stop along the way, he discovers people either responsible for or involved in these incidents where drinking or drunk when tragedy struck. He investigates the compelling evidence linking alcohol to rape, child abuse, spouse battering and profusion of other violent crimes.



## **PART 5**

### **SHIPBOARD TRAINING ENHANCEMENT PROGRAM**

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#### **DAMAGE CONTROL - BATTLE LANTERN PMS (RELAY TYPE)**

**PIN:** 804173

**SUGGESTED AUDIENCE:** All rates

**LENGTH/TIME:** 3 minutes

**HARDWARE FOR PRESENTATION:** Videotape Player (3/4" U-matic, Beta, VHS, and HI-8)

**DESCRIPTION:** This video explains how to conduct proper PMS of Relay Type Battle Lanterns and identify proper location of battle lanterns.

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#### **DAMAGE CONTROL PETTY OFFICER INDOCTRINATION**

**IDENTIFICATION NUMBER:** A-495-0400

**SUGGESTED AUDIENCE:** All petty officers needing training to perform the duties of a Division and/or Duty Damage Control Petty Officer.

**AVAILABILITY:** STEP CD-ROM

**LENGTH/TIME:** Variable

**HARDWARE FOR PRESENTATION:** 386 computer with hard-disk, floppy-disk drive designated A:, CD-ROM drive, VGA color monitor and MS-DOS 5.0 or above.

**RESTRICTIONS:** This is a Navy-owned package. Its use is unrestricted.

**DESCRIPTION:** This package consists of six lessons: Material Conditions of Readiness; DCPO PMS Objectives and Responsibilities; Review of Maintenance Requirement Cards (MRC's); Material Safety Data Sheet; Compartment/Space Inspections, Fire Extinguishers and Ladders and Handrails; and Closures, Ducting and Fire Station Equipment. A Pre-test tracks user knowledge and marks passed lessons as completed. A comprehensive Post-test follows completion of all lessons. A certificate is printed to disk or paper upon successful completion of the Post-test. This package satisfies the requirements of CIN# J-495-0400.

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#### **DAMAGE CONTROL - HAZARD AWARENESS KIT #1**

**PIN:** 803056

**SUGGESTED AUDIENCE:** All hands

**AVAILABILITY:** Available on a temporary loan basis in sound/slide format only.

**LENGTH/TIME:** 22 minutes

**HARDWARE FOR PRESENTATION:** 35 MM slide projector and 1/8 inch cassette tape player, or Telex Caramate 4000, or equivalent

**DESCRIPTION:** Inspection discrepancies are often related to hazards that will lead to accidents. This program will discuss the ability to inspect for damage control hazards and correct them.

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#### **DANGER ZONE - YOUR HANDS**

**PIN:** 801739

**SUGGESTED AUDIENCE:** All hands

**LENGTH/TIME:** 13 minutes

**HARDWARE FOR PRESENTATION:**

Videotape Player (Beta)

**RESTRICTIONS:** This is a commercial videotape available on a temporary loan basis to Navy commands only.

**DESCRIPTION:** This videotape demonstrates how unique a tool the hand is, where hand hazards exist and how to choose the right protective equipment.

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#### **DANGER ZONE - YOUR HEAD**

**PIN:** 803186

**SUGGESTED AUDIENCE:** All hands

**LENGTH/TIME:** 16 minutes

**HARDWARE FOR PRESENTATION:**

Videotape Player (Beta)

**RESTRICTIONS:** This is a commercial videotape available on a temporary loan basis to Navy commands only.

**DESCRIPTION:** This program demonstrates why a head injury can be serious and the proper protection equipment available.

---

#### **THE DWI DECISION**

**PIN:** 703111

**SUGGESTED AUDIENCE:** General Military Training, DAPA & CAAC personnel.

**LENGTH/TIME:** 19 minutes

**HARDWARE FOR PRESENTATION:** Videotape Player (Beta)

**RESTRICTIONS:** This is a commercial videotape available on a temporary loan basis to Navy commands only.

## PART 5

### SHIPBOARD TRAINING ENHANCEMENT PROGRAM

**DESCRIPTION:** Driving while intoxicated is presented in a three phase production which provides background information on alcohol and decisions concerning alcohol use.

---

#### ELECTRICITY/ELECTRONICS TOPICS

**IDENTIFICATION NUMBER:** CAI0028R0590

**SUGGESTED AUDIENCE:** All officers and enlisted personnel wanting to review basic math and electricity

**AVAILABILITY:** ICW CD-ROM and is available to .mil and .gov domains on the NETPDTC Homepage on the World Wide Web

(<http://www.cnet.navy.mil/netpdtc/netpdtc.htm>).

**LENGTH/TIME:** Variable

**HARDWARE FOR PRESENTATION:** 386 computer with hard-disk and CD-ROM drive, VGA color monitor, and MS-DOS 5.0 or compatible.

**RESTRICTIONS:** This is a Navy-owned package. Its use is unrestricted.

**DESCRIPTION:** This package is a combination of nine basic modules: Electrical Circuits; Resistor Coding; Formulas; Series Circuits; Series-Parallel Circuits; Reactance-Time Constants and PN Junctions.

---

#### ELECTROMAGNETIC INTERFERENCE (EMI) CONTROL

**Identification Number:** A-198-0001

**Suggested Audience:** The purpose of this course is to provide EMI Control training to Ships Force personnel, having a technical background in the operation/maintenance of electronic systems.

**Availability:** STEP CD-ROM

**Length/Time:** Approximately 100 minutes, 50 minutes per module

**Hardware for Presentation:** Minimum CPU, 486DX 33Mhz, 8M RAM, utilizing Windows 3.1 or higher, .wav capable sound board, VGA monitor.

**Restrictions:** Unrestricted Use. This is a Navy owned package.

**Description:** This ICW training package consists of 2 modules, each containing a Pre and Post Test. Module 1; Basic EMI theory, and Electromagnetic Environmental effects, Module 2; Advanced EMI theory, prevention and control. Although these modules lean mostly towards EMI awareness, it is projected that Module 3, Shipboard

Applications, will be added at a later date giving the Fleet advanced shipboard EMI Control procedures. A course completion print function is available to the Administrator via the subdirectory, "Manager". Refer to the README.txt file located in the MANAGER subdirectory for printing instructions.

**Purpose:** The mission of this ICW package is to enable personnel having a technical background in the operation/maintenance of electronic systems, but who have little or no experience with EMI control, to acquire the requisite knowledge and skill to provide organic EMI Control capability.

---

#### ESD THE INVISIBLE THREAT

**PIN:** 803784

**SUGGESTED AUDIENCE:** Anyone who maintains or handles electronic components

**LENGTH/TIME:** 10 minutes

**HARDWARE FOR PRESENTATION:** Videotape Player (3/4" U-matic, Beta, VHS, and HI-8)

**DESCRIPTION:** This program is an excellent source of refresher training on electrostatic discharge for anyone who maintains or handles electronic components.

---

#### EYE SAFETY

**PIN:** 604862

**SUGGESTED AUDIENCE:** All hands

**LENGTH/TIME:** 20 minutes

**HARDWARE FOR PRESENTATION:** Videotape Player (Beta)

**RESTRICTIONS:** This is a commercial videotape available on a temporary loan basis to Navy commands only.

**DESCRIPTION:** This program explains physical, chemical and radiation hazards to eyes and details the types of protection required for each.

---

#### FIRE ON THE FLIGHT DECK

**PIN:** 800588

**SUGGESTED AUDIENCE:** General Military Training -- all hands

**LENGTH/TIME:** 26 minutes

**HARDWARE FOR PRESENTATION:** Videotape Player (3/4" U-matic, Beta, VHS, and HI-8)

**DESCRIPTION:** This program examines carrier

## **PART 5**

### **SHIPBOARD TRAINING ENHANCEMENT PROGRAM**

fires, explains the use of AFFF vice protein foam and the amount required to extinguish a fire. Also explains when to use salt water as a coolant.

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#### **FIRESTATIONS AND RELATED EQUIPMENT**

**PIN:** 804326

**SUGGESTED AUDIENCE:** All hands

**LENGTH/TIME:** 10 minutes

**HARDWARE FOR PRESENTATION:** Videotape

Player (3/4" U-matic, Beta, VHS, and HI-8)

**DESCRIPTION:** Describes the maintenance procedures for a shipboard firestation.

---

#### **FIRST AID FOR BURNS**

**PIN:** 702179

**SUGGESTED AUDIENCE:** General Military Training -- First Aid, also refresher training for corpsmen

**LENGTH/TIME:** 11 minutes

**HARDWARE FOR PRESENTATION:** Videotape

Player (Beta)

**RESTRICTIONS:** This is a commercial videotape available on a temporary loan basis to Navy commands only.

**DESCRIPTION:** Viewers learn how to treat burns caused by a barbecue, steam, chemicals, cinders, and how to treat small blistered burns.

---

#### **FIRST AID FOR BURNS AND FRACTURES**

**PIN:** 805359

**SUGGESTED AUDIENCE:** General Military Training -- First Aid, also refresher training for corpsmen

**LENGTH/TIME:** 9 minutes

**HARDWARE FOR PRESENTATION:** Videotape

Player (Beta)

**RESTRICTIONS:** This is a commercial videotape available on a temporary loan basis to Navy commands only.

**DESCRIPTION:** This video describes advanced first aid procedures. It guides first responders in assessing and treating thermal and chemical burns; skull, spine, rib, leg and arm fractures; and internal bleeding injuries.

---

#### **FIRST AID FOR WOUNDS**

**PIN:** 702177

**SUGGESTED AUDIENCE:** General Military Training -- First Aid, also refresher training for corpsmen

**LENGTH/TIME:** 9 minutes

**HARDWARE FOR PRESENTATION:** Videotape Player (Beta)

**RESTRICTIONS:** This is a commercial videotape available on a temporary loan basis to Navy commands only.

**DESCRIPTION:** Reviews classification and types of wounds, and prevention of contamination and infection.

---

#### **FLAGS**

**IDENTIFICATION NUMBER:** CAI0003R1189

**SUGGESTED AUDIENCE:** All personnel desiring to review nautical flags and pennants.

**AVAILABILITY:** ICW CD-ROM and is available to .mil and .gov domains on the NETPDTC Homepage on the World Wide Web (<http://www.cnet.navy.mil/netpdtc/netpdtc.htm>).

**LENGTH/TIME:** Variable

**HARDWARE FOR PRESENTATION:** 386 computer with hard-disk and CD-ROM drive, VGA color monitor, and MS-DOS 5.0 or compatible.

**RESTRICTIONS:** This package has been granted a perpetual, unlimited distribution license to the Navy for use by the Federal Government. It may be used or retained for personal, non-commercial use by any employee of the Federal Government or any individual participating in an official function of the Federal Government.

**DESCRIPTION:** This program provides drill and practice in recognizing nautical flags and pennants. This program aids in learning to identify the individual nautical flags and pennants and to correctly read flag hoists. Flags can display or quiz you on individual flags or on flag hoists with up to twenty flags.

---

#### **FOOD SERVICE SANITATION**

**IDENTIFICATION NUMBER:** B-322-

**SUGGESTED AUDIENCE:** Food service personnel.

**AVAILABILITY:** STEP CD-ROM (MAY 1997)

## **PART 5**

### **SHIPBOARD TRAINING ENHANCEMENT PROGRAM**

and schoolhouses located at Navy Environmental and Preventive Medicine Units at Norfolk, VA.; Pearl Harbor, HI; Naples, Italy

**LENGTH/TIME:** TBD hours

**RESTRICTIONS:** This is a Navy-owned package. Its use is unrestricted.

**DESCRIPTION:** Eight lessons presenting food service sanitation, basic and refresher topics: 1. Microbiology; 2. Food-borne illness; 3. Preparation and Serving; 4. Food Safety; 5. Dishwashing; 6. Inspection and Storage; 7. Pest Control; 8. Physical Hygiene. Pre- and Post-Test provided. Certificate of Completion created upon completion of Post-Test. Estimated completion date DEC 95.

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#### **GENERAL PURPOSE ELECTRONIC TEST EQUIPMENT (GPETE)**

**IDENTIFICATION NUMBER:** A-670-0041

**SUGGESTED AUDIENCE:** Fleetwide distribution: A School graduates with theoretical background.

**AVAILABILITY:** STEP CD-ROM

**LENGTH/TIME:** 9 hours

**RESTRICTIONS:** This is a Navy-owned package. Its use is unrestricted.

**DESCRIPTION:** Provides a familiarization with GPETE using specific equipment models as examples of general categories of test equipment. Eight topics covered include GPETE Management, Multimeters, Oscilloscopes, Signal Generators, Electronic Counters, Spectrum Analyzers, Power Meters, and Component Testers. A pre-test and post-test is provided for each module. A Certificate of Completion is available upon completion of entire course. An on-board supervisor is required to verify course completion and to monitor the practical/hands-on qualification aspects of the course.

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#### **GRAB FOR YOUR LIFE (EEBD)**

**PIN:** 801729

**SUGGESTED AUDIENCE:** All hands

**LENGTH/TIME:** 30 minutes

**HARDWARE FOR PRESENTATION:** Videotape Player (3/4" U-matic, Beta, VHS, and HI-8)

**DESCRIPTION:** This presentation demonstrates how to safely operate the emergency breathing device (EEBD), when it is necessary to don the EEBD, and enhance the safety awareness of all personnel.

---

#### **HALON 1301 FIRE EXTINGUISHING SYSTEM**

**PIN:** 801888

**SUGGESTED AUDIENCE:** All rates and ranks.

**AVAILABILITY:** Available on a temporary loan basis in sound/slide format only.

**LENGTH/TIME:** 15 minutes

**HARDWARE FOR PRESENTATION:** 35 MM slide projector and 1/8-inch cassette tape player, or Telex Caramate 4000, or equivalent.

**DESCRIPTION:** This sound/slide presentation describes the overall features of the HALON 1301 fire extinguishing system as installed aboard ship. It explains what the system is, and how and when it is employed. Viewer is taken step-by-step through a fire fight in a machinery space.

---

#### **HARD TARGET**

**PIN:** 803445

**SUGGESTED AUDIENCE:** All Naval and Marine Corps personnel and their dependents

**LENGTH/TIME:** 16 minutes

**HARDWARE FOR PRESENTATION:** Videotape Player (3/4" U-matic, Beta, VHS, and HI-8)

**DESCRIPTION:** This program is intended to make the sailor, marine and dependents deploying to high threat areas aware of what terrorism is and what terrorism does. It will be used to brief Navy and Marine Corps personnel prior to deploying overseas. Shows the viewer the present day problems associated with terrorists.

---

#### **HEARING SAFETY**

**PIN:** 604863

**SUGGESTED AUDIENCE:** All hands

**LENGTH/TIME:** 18 minutes

**HARDWARE FOR PRESENTATION:**

Videotape Player (Beta).

**RESTRICTIONS:** This is a commercial videotape available on a temporary loan basis to Navy commands only.

**DESCRIPTION:** This program stresses the importance of hearing conservation in all noisy environments -- but especially in 85 db situations. The dangers of long term exposure to these common levels of industrial noise in terms of the effect on the hearing of the properties of pitch, intensity and duration and ways people often fool themselves into

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### SHIPBOARD TRAINING ENHANCEMENT PROGRAM

believing hearing protection is not really necessary is made clear. The program concludes with a survey of protective devices and their proper use.

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#### IF ONLY

**IDENTIFICATION NUMBER:** 805358 DN

**SUGGESTED AUDIENCE:** General military training, DAPA & CAAC personnel

**LENGTH/TIME:** 23 minutes

**HARDWARE FOR PRESENTATION:**

Videotape Player (Beta)

**RESTRICTIONS:** This is a commercial videotape available on a temporary loan basis to Navy commands only.

**DESCRIPTION:** Will motivate viewers to "buckle up" by showing why the brain can be so easily injured in a crash, how safety belts minimize the risk of head injury, and the long term devastating effects of a head injury.

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#### INTEGRATED SHIPBOARD MAINTENANCE SUPPORT (ISMS)

**IDENTIFICATION NUMBER:** A-500-0041

**SUGGESTED AUDIENCE:** Intermediate level shipboard managers (E-4 through O5) serving as repair parts petty officers, leading petty officers, workcenter supervisors, 3M coordinators, division officers, department heads, or supply (AK/SK) personnel

**AVAILABILITY:** STEP CD-ROM

**LENGTH/TIME:** 40 Hours

**HARDWARE FOR PRESENTATION:** Computer meeting STEP specifications, Windows or higher, and a .WAV capable sound board

**RESTRICTIONS:** This is a Navy owned package. Its use is unrestricted.

**DESCRIPTION:** This Interactive Courseware Training program is based on the Integrated Shipboard Maintenance Support (ISMS) training course previously taught at the Fleet Training Center, Norfolk, Virginia. This course consists of 10 lessons:

Introduction to Integrated Shipboard Maintenance Support (ISMS), Planned Maintenance System (PMS), Ship Selected Records (SSRs), Technical Manual Maintenance Afloat, Ship's Portable Electrical/Electronic Test Equipment Requirements List (SPETERL), Coordinated Shipboard Allowance List (COSAL), COSAL Validation, Maintenance

Action Deferrals and Configuration Change Reporting, Automated Maintenance Data System (MDS) Subsystem, Fundamentals of Supply System Support.

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#### LCAC CORROSION CONTROL

**IDENTIFICATION NUMBER:** A-060-0001

**SUGGESTED AUDIENCE:** LCAC crew members and support staff both Afloat and Ashore.

**AVAILABILITY:** STEP CD-ROM

**LENGTH/TIME:** Approximately 2.5hrs

**HARDWARE FOR PRESENTATION:** 80486DX2/66 and CD-ROM drive, SVGA color monitor and Windows 3.11

**RESTRICTIONS:** This is a Navy-owned package. Its use is unrestricted.

**DESCRIPTION:** This package consists of 6 lessons: Administration/Introduction; General Guidelines; Theory of Corrosion and Corrosion Control; Corrosion Prone LCAC Zones; LCAC Corrosion Control Prevention, Philosophy and Procedures; and, Assault Craft Unit Corrosion Control Procedures. A pretest tracks the users comprehension of corrosion theory and corrosion prevention. Challenge questions are available throughout the lessons to test the users knowledge of the lesson they are currently studying. A Law icon allows reference to State Emergency Response Commissions concerning Hazardous Materials disposal within local and federal regulations. A HAZMAT icon allows the user to search for information about Hazardous Materials. A comprehensive posttest follows completion of all lessons.

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#### LOOKOUT TRAINING

**IDENTIFICATION NUMBER:** A-063-0001

**SUGGESTED AUDIENCE:** All sailors and fleet personnel.

**AVAILABILITY:** STEP CD-ROM

**LENGTH/TIME:** 8 hours

**RESTRICTIONS:** This is a Navy-owned package. Its use is unrestricted.

**DESCRIPTION:** Seven lessons presenting topics of concern to shipboard lookouts: 1. Importance of Lookout Duties, Lookout Stations, Lookout Equipment, Visual Search Procedures; 2. Contact Reporting Procedures, 3. Man Overboard, Distress Signals, Special Submarine Signals, Special Signal Flags; 4. Restricted Visibility Steaming; 5. Rules of

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### SHIPBOARD TRAINING ENHANCEMENT PROGRAM

the Road; 6. Buoys; 7. Aircraft and Ship Recognition. Pre- and Post-Test provided. Certificate of Completion created upon completion of Post-Test.

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#### LUBRICATION TECHNIQUES

**IDENTIFICATION NUMBER:** 804809 DN  
**SUGGESTED AUDIENCE:** Engineering and Deck Ratings  
**LENGTH/TIME:** 24 minutes  
**HARDWARE FOR PRESENTATION:** Videotape Player (Beta)  
**RESTRICTIONS:** This is a commercial videotape available on a temporary loan basis to Navy commands only.  
**DESCRIPTION:** This video illustrates the proper ways to lubricate industrial equipment.

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#### MAINTENANCE OF WATERTIGHT BOUNDARIES

**PIN:** 804324  
**SUGGESTED AUDIENCE:** All hands  
**LENGTH/TIME:** 12 minutes  
**HARDWARE FOR PRESENTATION:** Videotape Player (3/4" U-matic, Beta, VHS, and HI-8)  
**DESCRIPTION:** States areas of concern in maintaining watertight boundaries.

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#### MANEUVERING BOARD REFRESHER

**IDENTIFICATION NUMBER:** CAI0001R1189  
**SUGGESTED AUDIENCE:** Officer and enlisted personnel who need refresher training in maneuvering board skills.  
**AVAILABILITY:** ICW CD-ROM and is available to .mil and .gov domains on the NETPDTC Homepage on the World Wide Web (<http://www.cnet.navy.mil/netpdtc/netpdtc.htm>).  
**LENGTH/TIME:** Variable (20 hours average)  
**HARDWARE FOR PRESENTATION:** 386 computer with hard-disk and CD-ROM drive, VGA color monitor, and MS-DOS 5.0 or compatible.  
**RESTRICTIONS:** This is a Navy-owned package. Its use is unrestricted.  
**DESCRIPTION:** This package consists of four

phases: (1) Information, (2) Application, (3) Remediation, and (4) Evaluation. Users are presented with appropriate subject matter, questioned on it through the use of practice exercises, remediated on those items incorrectly answered, and evaluated with a scenario-based test. It uses interactive graphics to provide training in the conceptual basis of relative motion problems. Users are required to work the problem on a maneuvering board and input answers into the computer. Immediate feedback is provided in the form of a correct solution. If desired, the user can either see a solution plotted or see a simultaneous plot along with the interaction described in the problem.

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#### MORSE CODE

**IDENTIFICATION NUMBER:** CAI0029R0590  
**SUGGESTED AUDIENCE:** All officers and enlisted desiring to improve proficiency in receiving and transmitting Morse Code.  
**AVAILABILITY:** Issued on 5 1/4" disks (while supplies last) and on the ICW CD-ROM.  
**LENGTH/TIME:** Variable  
**HARDWARE FOR PRESENTATION:** 386 computer with hard-disk and CD-ROM drive, VGA color monitor, and MS-DOS 5.0 or compatible.  
**RESTRICTIONS:** This package contains shareware software. Restrictions apply.  
**DESCRIPTION:** This program has enough features and flexibility to allow anyone wanting to learn the Morse code or improve speed will find a combination of mode and speed which will be perfect for his/her current proficiency level. It is a combination of three modules which include receiving and transmitting CW and receiving flashing lights.

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#### MOTOR CONTROL FUNDAMENTALS

**PIN:** 804810  
**SUGGESTED AUDIENCE:** Electrical rates  
**LENGTH/TIME:** 87 minutes  
**HARDWARE FOR PRESENTATION:** Videotape Player (Beta)  
**RESTRICTIONS:** This is a commercial videotape available on a temporary loan basis to Navy commands only.



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### SHIPBOARD TRAINING ENHANCEMENT PROGRAM

**DESCRIPTION:** This 5-part series explains the principles of motor controls and to read and understand line diagrams.

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#### NAVIGATION SIMULATOR (NAVSIM)

**IDENTIFICATION NUMBER:** CA10005R0389

**SUGGESTED AUDIENCE:** All officers and enlisted personnel engaged in navigation.

**AVAILABILITY:** ICW CD-ROM and is available to .mil and .gov domains on the NETPDTC Homepage on the World Wide Web (<http://www.cnet.navy.mil/netpdtc/netpdtc.htm>).

**LENGTH/TIME:** Variable

**HARDWARE FOR PRESENTATION:** 386 computer with hard-disk and CD-ROM drive, VGA color monitor, and MS-DOS 5.0 or compatible.

**RESTRICTIONS:** This is a Navy-owned package. Its use is unrestricted.

**DESCRIPTION:** This package simulates real time navigation using: visual bearings, LORAN C, OMEGA, and SATNAV. Comes with canned scenario, but additional scenarios can be developed for any desired location.

---

#### P-100 PORTABLE PUMP

**Identification Number:** A-652-0001

**Suggested Audience:** The purpose of this course is to provide training to Ships Force Damage Control team personnel in the operation, scheduled maintenance and basic troubleshooting of the P-100 Portable Pump.

**Availability:** STEP CD-ROM

**Length/Time:** Approximately 40 minutes

**Hardware for Presentation:** Minimum CPU, 486DX 33Mhz, 8M RAM, utilizing Windows 3.1 or higher, .wav capable sound board, VGA monitor.

**Restrictions:** Unrestricted Use. This is a Navy owned package.

**Description:** This ICW training package consists of a Pre-test, Introduction, three lessons: (1) Operation (2) Scheduled Maintenance (3) Troubleshooting and a Post-test. A course completion print function is available to the Administrator via the subdirectory, "Manager". Refer to the README.txt file located in the MANAGER subdirectory for printing instructions.

**Purpose:** The mission of this ICW package is to provide replacement training to those personnel with previous P-250 DC pump training and refresher

training for personnel who have attended the Fleet Fire-Fighting & Damage Control School currently teaching the P-100 Portable Pump for use in damage control.

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#### P-250 MOD 2 PORTABLE PUMP OPERATION

**PIN:** 804284

**SUGGESTED AUDIENCE:** All officers and enlisted personnel engaged in damage control, including damage control teams, firefighters and rescue teams.

**LENGTH/TIME:** 20

**HARDWARE FOR PRESENTATION:** Videotape Player (3/4" U-matic, Beta, VHS, and HI-8)

**DESCRIPTION:** Describes how to start and secure the P-250 Mod-2 engine driven fire pump.

Emphasizes the need to read the technical manual before starting. Demonstrates hook-up of intake, discharge and exhaust hoses; attachment of fuel can; priming and start procedure. Demonstrates stop procedure, draining and fresh water flushing of pump. Shows corresponding procedures for cold weather operation. Demonstrates what to do in case vacuum cannot be obtained and if engine run-on occurs. Emphasizes importance of flow meter and safe operating regions.

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#### PERSONAL TOUCH: JASON ROBARDS ON ALCOHOLISM

**PIN:** 805360

**SUGGESTED AUDIENCE:** General Military Training, DAPA & CAAK personnel

**LENGTH/TIME:** 15 minutes

**HARDWARE FOR PRESENTATION:** Videotape Player (Beta)

**RESTRICTIONS:** This is a commercial videotape available on a temporary loan basis to Navy commands only.

**DESCRIPTION:** An enlightening program that takes a sobering look at alcoholism from the perspective of award-winning actor Jason Robards who recounts his own struggle to battle his drinking problem. Robards is seen in performance and conducting an audience discussion at a rehabilitation center where recovering alcoholics share their experience of "hitting bottom" and the hard road back to sobriety. This stirring film emphasizes that

## PART 5

### SHIPBOARD TRAINING ENHANCEMENT PROGRAM

alcoholism can affect anyone, and by removing the myths and stigma surrounding this incurable disease, others may be encouraged to seek treatment.

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#### PIPING AND VENT SYSTEM MARKINGS

**PIN:** 804327

**SUGGESTED AUDIENCE:** All hands

**LENGTH/TIME:** 12 minutes

**HARDWARE FOR PRESENTATION:** Videotape

Player (3/4" U-matic, Beta, VHS, and HI-8)

**DESCRIPTION:** Identifies various piping and ventilation systems and describes proper markings for piping and ventilation systems aboard ship.

---

#### PRIVATE TUTOR - BASIC NUMBER CONCEPTS,

MATH COMPUTATION SKILLS, PREPARING FOR GEOMETRY AND ALGEBRA, AND SOLVING MATH WORD PROBLEMS - VERSION 2.0 PROGRAM DISK

**IDENTIFICATION NUMBER:** CAI0022R0390

**SUGGESTED AUDIENCE:** Anyone interested in improving math computation skills.

**AVAILABILITY:** Available on 5 1/4" disks on a temporary loan basis only.

**LENGTH/TIME:** Variable, self-paced.

**HARDWARE FOR PRESENTATION:** Zenith Z-248 computer with dual-floppy disk or hard-disk system, EGA card, and color monitor, or compatible.

**RESTRICTIONS:** This is a commercial package purchased by the Navy under a license agreement. They may not be duplicated, copied, or reproduced in any way other than that specified in the license agreement.

**DESCRIPTION:** This self paced Private Tutor 2.0 Basic Number Concepts course explores number properties in various multiple-choice formats. Self-paced lessons, quizzes, and tests cover even, odd and prime numbers; factors and multiples; commutative, distributive and associate properties; and more. Math Computation Skills reviews basic math operations - addition, subtraction, multiplication, division, and conversions. Five lessons on whole numbers, decimals, fractions, ratios and percentages help refresh basic math skills. Preparing for Geometry and Algebra reviews the rules and techniques algebra and geometry. Topics include: angles, perimeters, area, volume, integers,

exponents, scientific notation, charts and graphs, number sequences, and much more. Solving Math Word Problems reviews the rules and techniques of solving word problems. Five individual lessons cover one- and two-step problems, how to identify correct operations, percentages, and more. For 6th grade through adult. NOTE: The Private Tutor Version 2.0 program disk is required to run the lessons.

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#### PLASTICS WASTE PROCESSOR (PWP)

**Identification Numbers:** Operations TBA, Maintenance TBA

**Suggested Audience:** The purpose of this course is to provide training to Ships Force Personnel in the operation, scheduled and corrective maintenance procedures to support the PWP.

**Availability:** STEP CD-ROM

**Length/Time:** Approximately 200 minutes

**Hardware for Presentation:** Minimum CPU, 486DX 33Mhz, 8M RAM, utilizing Windows 3.1 or higher, .wav capable sound board, VGA monitor.

**Restrictions:** Unrestricted Use. This is a Navy owned package.

**Description:** This ICW training package consists of a Pre-test, 4 modules of instruction, Module 1; general functionality, safety and operation of the solid waste shredder, Module 2; general functionality, safety and operation of the plastics processor, Module 3; troubleshooting and maintenance of the solid waste shredder, Module 4; troubleshooting and maintenance of the plastics processor, and a Post Test. Trainees can select either Operations or Maintenance as their job requirements dictate. A course completion print function is available to the Administrator via the subdirectory, "Manager". Refer to the README.txt file located in the MANAGER subdirectory for printing instructions.

**Purpose:** The mission of this ICW package is to provide initial training to those personnel requiring the skills to operate and maintain the PWP.

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#### PULPER, SMALL AND LARGE

**Identification Numbers:** Small Pulper Operations TBA, Small Pulper Maintenance TBA, Large Pulper Operations TBA, Large Pulper Maintenance TBA.

**Suggested Audience:** The purpose of this course is to provide training to Ships Force Personnel in the operation, scheduled and corrective maintenance



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### **SHIPBOARD TRAINING ENHANCEMENT PROGRAM**

procedures to support the Small and Large Pulper.

**Availability:** STEP CD-ROM

**Length/Time:** Approximately 200 minutes

**Hardware for Presentation:** Minimum CPU, 486DX 33Mhz, 8M RAM, utilizing Windows 3.1 or higher, .wav capable sound board, VGA monitor.

**Restrictions:** Unrestricted Use. This is a Navy owned package.

**Description:** This ICW training package consists of 4 courses of instruction each containing a Pre and Post Test, Course 1; general functionality, safety and operation of the small pulper, Course 2; maintenance and troubleshooting of the small pulper, Course 3; general functionality, safety and operation of the large pulper, Course 4; maintenance and troubleshooting of the large pulper. Trainees can select either Operations or Maintenance, small or large pulper, as their job requirements dictate. A course completion print function is available to the Administrator via the subdirectory, "Manager".

Refer to the README.txt file located in the MANAGER subdirectory for printing instructions.

**Purpose:** The mission of this ICW package is to provide initial training to those personnel requiring the skills to operate and maintain the small and large pulper.

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#### **QUALITY OF LIFE: BACK INJURY PREVENTION**

**PIN:** 803503

**SUGGESTED AUDIENCE:** All hands

**LENGTH/TIME:** 24 minutes

**HARDWARE FOR PRESENTATION:** Videotape Player (3/4" U-matic, Beta, VHS, and HI-8)

**DESCRIPTION:** Lifting heavy objects is not the only cause of back pain. The muscles of the back can be strained or pulled in a number of ways, or the problem may be a disorder with a disc in the spine. Many back injuries can be avoided and prevention is better than trying to cure an existing painful condition. This presentation shows how the various parts of the back function, how certain activities can strain the muscles of the back and how to make changes in your lifestyle that will help prevent back injury. Preventing back pain is achieved by focusing on five key areas: (1) Exercise and fat control, (2) Better posture, (3) Proper lifting techniques, (4) Body mechanics, and (5) Rest.

---

#### **QUALITY OF LIFE: DRUG AND ALCOHOL**

#### **ABUSE PREVENTION AND CONTROL - ZERO TOLERANCE**

**PIN:** 803508

**SUGGESTED AUDIENCE:** All hands

**LENGTH/TIME:** 33 minutes

**HARDWARE FOR PRESENTATION:** Videotape Player (3/4" U-matic, Beta, VHS, and HI-8)

**DESCRIPTION:** This program discusses the Navy's policy on zero tolerance on alcohol and drug abuse. The question asked is, "What kind of person am I in relationship with alcohol and drugs? Do I use them, abuse them, control them, or do they control me?" Introduces to the men and women in the Navy the risks involved in using any drugs including legal drugs, such as alcohol and nicotine. Discusses signs, symptoms and objectives involved, and the sources of help and treatment.

---

#### **QUALITY OF LIFE: HEALTH AND PHYSICAL READINESS, PHYSICAL FITNESS AND SPORTS**

**PIN:** 803506

**SUGGESTED AUDIENCE:** All hands

**LENGTH/TIME:** 18 minutes

**HARDWARE FOR PRESENTATION:** Videotape Player (3/4" U-matic, Beta, VHS, and HI-8)

**DESCRIPTION:** Sports activities help keep sailors healthy and fit which is a vital part in Navy personnel readiness. Total fitness combines flexibility, muscular strength and endurance, aerobic capacity and body composition. This program shows how to achieve total fitness, even if you are stationed aboard a ship with limited exercise equipment. Discusses weight and training programs, and how to calculate your heart rate target zone. Gives tips for a more healthy lifestyle: (1) If you smoke, stop, (2) If you drink, be sensible and (3) Safeguard your health with periodic physicals.

---

#### **QUALITY OF LIFE: STRESS MANAGEMENT/HIGH BLOOD PRESSURE - LIVING WITH YOURSELF**

**PIN:** 803505

**SUGGESTED AUDIENCE:** All hands

**LENGTH/TIME:** 23 minutes

**HARDWARE FOR PRESENTATION:** Videotape Player (3/4" U-matic, Beta, VHS, and HI-8)

## **PART 5**

### **SHIPBOARD TRAINING ENHANCEMENT PROGRAM**

**DESCRIPTION:** Living with yourself successfully means feeling that you can handle life's problems. Stress leads to depression, frustration and even desperation, if one does not know how to cope with it. At times stress can even make living itself seem very difficult. This program reviews stress coping skills, common Navy stresses, relaxation techniques, deep breathing exercises, guided imagery, myths of suicide and danger signs. Common physical responses to stress include: increased heart rate, rapid breathing, increases blood pressure, perspiration, nervousness, and loss of concentration.

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#### **QUALITY OF LIFE: TOBACCO USE EDUCATION AND PREVENTION - CLEARING THE AIR**

**PIN:** 803504

**SUGGESTED AUDIENCE:** All hands

**LENGTH/TIME:** 20 minutes

**HARDWARE FOR PRESENTATION:** Videotape Player (3/4" U-matic, Beta, VHS, and HI-8)

**DESCRIPTION:** This presentation informs service members of the risk factors of tobacco use and SECNAV policy regarding smoking.

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#### **QUALITY OF LIFE: WEIGHT AND FAT CONTROL/NUTRITION EDUCATION - THE CHOICE IS YOURS**

**PIN:** 803507

**SUGGESTED AUDIENCE:** All hands

**LENGTH/TIME:** 23 minutes

**HARDWARE FOR PRESENTATION:** Videotape Player (3/4" U-matic, Beta, VHS, and HI-8)

**DESCRIPTION:** Food is the fuel that keeps our bodies running smoothly and at peak performance. Maintaining an ideal weight is not enough. Our health and the quality of our lives depend on the eating habits we create and the price we pay for making bad choices. Diet and nutrition guidelines for better health and fitness include: (1) Eat a variety of foods, (2) Maintain a desirable weight, (3) Avoid too much fat and cholesterol, (4) Eat fiber and complex carbohydrates, (5) Avoid too much sugar, (6) Avoid too much sodium or salt, and (7) Drink alcoholic beverages in moderation. Eating a balanced diet of meat, fruits, vegetables, and grains will provide the right nutrition for an active lifestyle.

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#### **RULE MASTER**

**IDENTIFICATION NUMBER:** CAI0045R1093

**SUGGESTED AUDIENCE:** All officers and enlisted personnel wanting to learn or review Rules of the Nautical Road

**AVAILABILITY:** Available on 5 1/4" disks on a temporary loan basis only.

**LENGTH/TIME:** Variable

**HARDWARE FOR PRESENTATION:** Zenith Z-248 computer with dual-floppy disk or hard-disk system, EGA card, and color monitor, or compatible.

**RESTRICTIONS:** This is a commercial package purchased by the Navy under a license agreement. It may not be duplicated, copied, or reproduced in any way other than that specified in the license agreement.

**DESCRIPTION:** This package supplements the Rules of the Nautical Road package (CAI0002R0289) and contains a selection of quizzes on the topics of general rules, fog, lights and dayshapes and approach situations. After each question, you will be able to see the correct answer, and if desired, see an explanation, see the reference for the question, and repeat any questions you miss.

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#### **RULES OF THE NAUTICAL ROAD**

**IDENTIFICATION NUMBER:** CAI0002R0289

**SUGGESTED AUDIENCE:** Commissioned officers and senior enlisted personnel actively engaged in the bridge control team functions and/or returning to an afloat command.

**AVAILABILITY:** ICW CD-ROM and is available to .mil and .gov domains on the NETPDTC Homepage on the World Wide Web (<http://www.cnet.navy.mil/netpdtc/netpdtc.htm>).

**LENGTH/TIME:** Variable. Eight lessons, one application exercise and a final exam. Time to complete, approximately ten hours.

**HARDWARE FOR PRESENTATION:** 386 computer with hard-disk and CD-ROM drive, VGA color monitor, and MS-DOS 5.0 or compatible.

**RESTRICTIONS:** This is a Navy-owned package. Its use is unrestricted.

**DESCRIPTION:** This package consists of four phases: (1) Information, (2) Application, (3) Remediation, and (4) Evaluation. Users are presented with appropriate subject matter,

## PART 5

### SHIPBOARD TRAINING ENHANCEMENT PROGRAM

questioned on it through the use of practice exercises, remediated on those items incorrectly answered, and evaluated with a scenario-based test. Content covers the appropriate actions under all conditions of visibility for situations encountered while under way, anchored, moored, or aground in both International and Inland Waters, and in accordance with, the International regulations for Preventing Collision at Sea, 1972, and the Inland Navigation Act of 1980.

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#### SECOND NATIONAL DRIVING TEST: ONE FOR THE ROAD

**PIN:** 602708

**SUGGESTED AUDIENCE:** General Military Training, NADSAP training, DAPA & CAAC personnel

**LENGTH/TIME:** 29 minutes

**HARDWARE FOR PRESENTATION:**

Videotape Player (Beta)

**RESTRICTIONS:** This is a commercial videotape available on a temporary loan basis to Navy commands only.

**DESCRIPTION:** A sobering look at what happens to a driver's vision and judgment while under the influence of alcohol. Volunteer subjects at a party supervised by doctors and psychologists take part in a series of games -- first sober, then drunk. The games are actually experiments testing alertness, information processing, and split attention -- all key skills for driving. This is a presentation that party goers, bar hoppers, and casual drinkers can't afford to miss.

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#### SEMAPHORE PRACTICE

**IDENTIFICATION NUMBER:**

**SUGGESTED AUDIENCE:** All officers and enlisted desiring to improve proficiency in receiving and transmitting semaphore.

**AVAILABILITY:** Issued on the the ICW CD-ROM.

**LENGTH/TIME:** 30 - 60 minutes.

**RESTRICTIONS:** This is a Navy-owned package. Its use is unrestricted

**DESCRIPTION:** This training program shows a sequence of 5 semaphore letters followed by 'FRONT' and then the user is asked to type in the

letters shown (either by single letters or by full words). If the user is not correct, the entire sequence of 5 letters is shown again before starting on a new group of 5 letters. A HELP option allows the user to review all semaphore letters.

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#### SHIPBOARD ASBESTOS EMERGENCY RESPONSE

**IDENTIFICATION NUMBER:** A-760-2165

**SUGGESTED AUDIENCE:** The purpose of this course is to provide members of the ship's three person asbestos response team with the annual refresher required IAW 5100 .19C, Chapter B1.

**AVAILABILITY:** STEP CD-ROM

**LENGTH/TIME:** Approximately 2.5 hours

**HARDWARE FOR PRESENTATION:** Minimum CPU, 486DX, 8MB RAM utilizing Windows 3.1 or higher, and .wav capable sound board.

**RESTRICTIONS:** This is a Navy-owned package. Its use is unrestricted.

**DESCRIPTION:** This package consists of 5 lessons: Intro to; Asbestos Hazards, Policies and Regulations, Personal Protection and Removal Equipment, Emergency Procedures and Glove Bag Procedures. Following the lessons is a Post-Test which writes student information and test scores to a floppy disk.

**PURPOSE:** This mission of this ICW is to provide refresher/enhancement training to personnel who have previously attended the formal Shipboard Asbestos Emergency Response Course (A-760-2166) offered by the NAVOSHENVTRACEN and does not replace the formal course.

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#### SHIPBOARD DAMAGE CONTROL SHORING

**PIN:** 34675

**SUGGESTED AUDIENCE:** Shipboard enlisted and officer personnel.

**LENGTH/TIME:** 27 minutes

**HARDWARE FOR PRESENTATION:** Videotape Player (3/4" U-matic, Beta, VHS, and HI-8)

**DESCRIPTION:** Describes three basic types of shoring and explains how to cut "K" type shoring, various methods of plugging and patching bulkhead and piping systems, and displays different tools and materials that may be used.

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## **PART 5**

### **SHIPBOARD TRAINING ENHANCEMENT PROGRAM**

#### **SHIPBOARD FIRE FIGHTING - PART 1 - AGENTS, EQUIPMENT AND SYSTEMS**

**PIN:** 801161

**SUGGESTED AUDIENCE:** All damage control personnel

**LENGTH/TIME:** 17 minutes

**HARDWARE FOR PRESENTATION:** Videotape

Player (3/4" U-matic, Beta, VHS, and HI-8)

**DESCRIPTION:** This program explains the relationship between fuel, oxygen and heat, the three components which form the fire triangle. Identifies the four classes of fires and demonstrates systems and procedures used aboard ships in fighting fires utilizing various systems and agents, including chemicals, foam, halon and fixed systems. Also how firefighting parties are organized and used including post-fire procedures.

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#### **SHIPBOARD FIRE FIGHTING - PART 2 - BASIC PROCEDURES**

**PIN:** 801579

**SUGGESTED AUDIENCE:** All damage control personnel

**LENGTH/TIME:** 22 minutes

**HARDWARE FOR PRESENTATION:** Videotape

Player (3/4" U-matic, Beta, VHS, and HI-8)

**DESCRIPTION:** This video teaches basic shipboard firefighting procedures, from reporting fires to post fire procedures. How damage control is organized for firefighting, what specified fire hazards exist aboard ship and how to prevent fires from happening. Also the agents, equipment and systems used, problems of specific fires and how to deal with special fire hazards are explained.

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#### **SHIPBOARD FIREFIGHTING PART 3 - EXTINGUISHING SPECIAL HAZARD FIRES**

**PIN:** 801358

**SUGGESTED AUDIENCE:** All hands

**LENGTH/TIME:** 15 minutes

**HARDWARE FOR PRESENTATION:** Videotape

Player (3/4" U-matic, Beta, VHS, and HI-8)

**DESCRIPTION:** The film shows a realistic demonstration of hazards, locations and techniques associated with extinguishing class "D" material fires.

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#### **SHIP MAINTENANCE AND MATERIAL MANAGEMENT (3M), NAVEDTRA 4324F, WATCHSTATION 301 MAINTENANCE PERSON**

**IDENTIFICATION NUMBER:** J-500-0025

**SUGGESTED AUDIENCE:** Navy maintenance personnel desiring to complete Watchstation 301 PQS qualifications.

**AVAILABILITY:** ICW CD-ROM.

**LENGTH/TIME:** Variable

**HARDWARE FOR PRESENTATION:** 386 computer with hard-disk and CD-ROM drive, VGA color monitor, and MS-DOS 5.0 or compatible.

**RESTRICTIONS:** This is a Navy-owned package. Its use is unrestricted.

**DESCRIPTION:** This package provides the requisite skills and knowledge for a maintenance person to complete the PQS line items for Watchstation 301, less those skills required to complete Organization Maintenance Management System (OMMS). Completion of this training program satisfies the requirements of J-500-0025.

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#### **SHIP MAINTENANCE AND MATERIAL MANAGEMENT (3M) OPERATIONS/ADMINISTRATION**

**IDENTIFICATION NUMBER:** J-500-0025

**SUGGESTED AUDIENCE:** Navy maintenance personnel (E5 and above) desiring to complete 3M Operations/Administration training.

**AVAILABILITY:** STEP CD-ROM.

**LENGTH/TIME:** Variable

**HARDWARE FOR PRESENTATION:** 386 computer with hard-disk and CD-ROM drive, VGA color monitor, and MS-DOS 5.0 or compatible.

**RESTRICTIONS:** This is a Navy-owned package. Its use is unrestricted.

**DESCRIPTION:** This package is a computer-based training version the shorebased training course J-500-0025. It provides the requisite skills and knowledge for a maintenance person to complete the PQS line items for Fundamentals Units 101-112, Watchstation 301 (Maintenance Person), and Watchstation 303 (3M Workcenter/Group Supervisor).

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#### **SHIPBOARD SEWAGE COLLECTION, HOLDING, AND TRANSFER (CHT) SYSTEMS**

## PART 5

### SHIPBOARD TRAINING ENHANCEMENT PROGRAM

**IDENTIFICATION NUMBER:** A-652-2141

**SUGGEST AUDIENCE:** Engineering and Medical Personnel E2 through E9

**AVAILABILITY:** Issued on STEP CD-ROM

**LENGTH/TIME:** 22 Instructional Hours

**HARDWARE FOR PRESENTATION:** 386 computer with hard-disk and CD-ROM drive, VGA color monitor, and MS-DOS 5.0 or compatible.

**RESTRICTIONS:** This is a Navy owned package. Its use is unrestricted

**PREREQUISITE QUALIFICATIONS:**

Engineering officers, operating and maintenance personnel, and medical personnel in rating responsible for the operation and maintenance of the CHT system.

**DESCRIPTION:** This course provides a description of the U.S. Navy's policy on pollution as applicable to the operation and maintenance of the CHT system.

Includes the medical guidelines and standards applicable to the operation of the CHT system. The course provides a description of the operation of the CHT system in the inport, transit, and at-sea modes of operation. Also provides the procedures for performing maintenance on the CHT comminutor and pump while ensuring adherence to all related personnel and equipment safety precautions.

#### SOLID STATE MOTOR CONTROLS

**PIN:** 804805

**SUGGESTED AUDIENCE:** Electrical rates

**LENGTH/TIME:** 75 minutes

**HARDWARE FOR PRESENTATION:** Videotape Player (Beta)

**RESTRICTIONS:** This is a commercial videotape available on a temporary loan basis to Navy commands only.

**DESCRIPTION:** This 5-part series introduces the basic components, operation and application of solid state motor controls.

#### STABILITY FOR NAVAL VESSELS

**IDENTIFICATION NUMBER:** CA10030R1093

**SUGGESTED AUDIENCE:** All personnel interested in ship stability.

**AVAILABILITY:** ICW CD-ROM and is available to .mil and .gov domains on the NETPDTC Homepage on the World Wide Web

(<http://www.cnet.navy.mil/netpdtc/netpdtc.htm>).

**LENGTH/TIME:** Variable 6 to 10 hours

**HARDWARE FOR PRESENTATION:** 386

computer with hard-disk and CD-ROM drive, VGA color monitor, and MS-DOS 5.0 or compatible.

**RESTRICTIONS:** This package has been purchased by the Navy under an Unlimited License agreement for distribution throughout the Federal Government. The Navy may duplicate and reproduce this software on any medium.

**DESCRIPTION:** This package covers basic and advanced materials related to routine and special assessments of ship stability. The course emphasizes practical applications of ship stability calculations for Navy vessels of all sizes. Also, certain practical applications relate to the FFG-55 vessel.

Consequently, aside from becoming knowledgeable on the subject of stability, you are also learning the stability performance of the FFG-55.

#### STREET SMARTS: HOW TO AVOID BEING A VICTIM

**PIN:** 805649

**SUGGESTED AUDIENCE:** All hands

**LENGTH/TIME:** 60 minutes

**HARDWARE FOR PRESENTATION:** Videotape Player (Beta)

**RESTRICTIONS:** This is a commercial videotape available on a temporary loan basis to Navy commands only.

**DESCRIPTION:** Filmed before a live audience, this fast-paced program reveals the four basic components of a strategic plan that will teach individuals how to safely and effectively cope with potentially threatening situations -- at home, at work, and on the streets. The video teaches the viewer how to become a "tough target," how denying privacy can save lives, how to use situation-specific means for attracting attention, how and when to take action, and how to develop common sense personal safety strategies for a variety of everyday situations.

#### SUPPLEMENTAL EMERGENCY EGRESS DEVICE (SEED) MAINTENANCE TRAINING

**IDENTIFICATION NUMBER:** A-495-0003

**SUGGESTED AUDIENCE:** This course provides training to I-Level corrective maintenance personnel. These personnel are typically serving in SIMAs or AIMDs or may be selected shipboard personnel.

**AVAILABILITY:** STEP CD-ROM



## PART 5

### SHIPBOARD TRAINING ENHANCEMENT PROGRAM

**LENGTH/TIME:** Approximately 30 minutes  
**HARDWARE FOR PRESENTATION:** Minimum CPU: 486DX/33 or equivalent; 8 MB RAM; .avi or Quicktime capable SVGA with minimum 640X480 and 256 colors; 2X CD-ROM with ISO 9660 XA-ready, 200ms access time; 16 bit, .wav capable, MPC2 compliant sound board with SoundBlaster 16; Microsoft Windows 3.1 or higher; keyboard; mouse or trackball.

**RESTRICTIONS:** Unrestricted Use. This is a Navy owned package.

**DESCRIPTION:** This ICW training package consists of a Pre-test, four (8) lessons and a Post-Test. The course covers operation and maintenance of the SEED refill manifold, fleet refill locations, corrective maintenance and logistics data.

**PURPOSE:** This ICW package provides training in all SEED maintenance and repair procedures. There is no other source of SEED maintenance training. To enhance understanding, the complete SEED Technical Manual may be accessed from the course.

#### SHIPBOARD SUPPLEMENTAL EMERGENCY EGRESS DEVICE (SEED) MANAGEMENT TRAINING

**IDENTIFICATION NUMBER:** A-495-1112

**SUGGESTED AUDIENCE:** The purpose of this course is to provide training to engineering division officers and supervisory personnel who manage use of the SEED.

**AVAILABILITY:** STEP CD-ROM

**LENGTH/TIME:** Approximately 20 minutes

**HARDWARE FOR PRESENTATION:** Minimum CPU: 486DX/33 or equivalent; 8 MB RAM; .avi or Quicktime capable SVGA with minimum 640X480 and 256 colors; 2X CD-ROM with ISO 9660 XA-ready, 200ms access time; 16 bit, .wav capable, MPC2 compliant sound board with SoundBlaster 16; Microsoft Windows 3.1 or higher; keyboard; mouse or trackball.

**RESTRICTIONS:** Unrestricted Use. This is a Navy owned package.

**DESCRIPTION:** This ICW training package consists of a Pre-test, twelve (12) lessons and a Post-Test. The course covers stowage, operational characteristics, physical characteristics, federal regulations on air quality and transportation, doctrine, watchstander PMS and location of refill support.

**PURPOSE:** This ICW package provides information necessary to management and supervisory personnel

who are responsible for the ship's SEED program. These personnel provide OJT to those required to wear the SEED while working or on watch in machinery spaces. To enhance understanding, the complete SEED Technical Manual may be accessed from the course.

#### TAO THREAT RECOGNITION TRAINING

**IDENTIFICATION NUMBER:** CAI0007R1289

**SUGGESTED AUDIENCE:** Surface Tactical Action Officers

**AVAILABILITY:** Issued on 5 1/4" disks only.

**LENGTH/TIME:** Variable. Four modules AAW, ASW, ASUW, and Multi-threat. Time to complete, approximately three hours.

**HARDWARE FOR PRESENTATION:** Zenith Z-248 computer with dual-floppy disk or hard-disk system, EGA card, and color monitor, or compatible.

**RESTRICTIONS:** This is a Navy-owned package. It is classified SECRET.

**DESCRIPTION:** This computer-based instruction (CBI) package consists of four modules: (1) AAW, (2) ASW, (3) ASUW, and (4) Multi-threat. Users are presented with appropriate subject matter, questioned on it, and provided feedback.

#### TARGET BY CHOICE

**PIN:** 804368 DN

**SUGGESTED AUDIENCE:** All hands

**LENGTH/TIME:** 15 minutes

**HARDWARE FOR PRESENTATION:** Videotape Player (3/4" U-matic, Beta, VHS, and HI-8)

**DESCRIPTION:** This is an antiterrorism presentation suitable for shipboard security and MAA forces.

#### TECHNICAL SURVEILLANCE COUNTERMEASURES

**IDENTIFICATION NUMBER:** N/A

**SUGGESTED AUDIENCE:** Command personnel who need to know

**LENGTH/TIME:** 30 minutes

**HARDWARE FOR PRESENTATION:** Videotape Player (3/4" U-matic)

**ORDER FROM:** NIS Headquarters

**DESCRIPTION:** This SECRET briefing is

## **PART 5**

### **SHIPBOARD TRAINING ENHANCEMENT PROGRAM**

presented by a Technical Investigative Specialist of the Naval Investigative Service, and is tailored for specific audiences. Requests should be submitted to NIS Headquarters. The briefing is normally presented to command personnel during the visit for Technical Surveillance Countermeasures inspection purposes, but can be separately provided. Covers the history and nature of the technical surveillance penetration threat, discusses command and personnel actions in case of discovery.

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#### **TELEPHONE SECURITY - YOUR PIECE OF THE PUZZLE**

**PIN:** 82947

**SUGGESTED AUDIENCE:** All hands

**LENGTH/TIME:** 25 minutes

**HARDWARE FOR PRESENTATION:** Videotape

Player (3/4" U-matic, Beta, VHS, and HI-8)

**DESCRIPTION:** This presentation points out the necessity for telephone security.

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#### **VALVES**

**PIN:** 804806

**SUGGESTED AUDIENCE:** Engineering Rates

**LENGTH/TIME:** 20 minutes

**HARDWARE FOR PRESENTATION:** Videotape

Player (Beta)

**RESTRICTIONS:** This is a commercial videotape available on a temporary loan basis to Navy commands only.

**DESCRIPTION:** This video covers the theory and application of valves used by the Navy.

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## SHIPBOARD TRAINING ENHANCEMENT PROGRAM CATALOG ADDITIONS/REVISIONS

Telephone \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper appears to be a standard notebook or legal pad style.



## PART 6

### NAVAL WAR COLLEGE

### COLLEGE OF CONTINUING EDUCATION

#### GENERAL INFORMATION

Although not every officer has the opportunity to attend the Naval War College in residence, eligible officers may participate through non-traditional programs administered by the College of Continuing Education. These programs afford the nonresident student the opportunity to participate in essentially the same core courses available to resident students. These courses have been designed to enable the nonresident student to earn the Naval War College diploma and, in so doing, to achieve certification for Joint Professional Military Education (PJE) PHASE 1. Further, they provide professional enrichment that will greatly reward the student and the Navy.

#### COURSES OFFERED

Nonresident graduate-level educational courses are offered in the following subject areas:

##### Core Courses

- (1) Joint Maritime Operations (JMO)
- (2) Strategy and Policy (S&P)
- (3) National Security Decision Making (NSDM)

##### Elective Courses

- (1) International Law (IL)
- (2) International Relations (IR)

#### COURSE DESCRIPTIONS

**JOINT MARITIME OPERATIONS** - The Joint Maritime Operations course is designed to increase awareness of the decision factors involved in the application of maritime power as it relates to joint and combined military operations. Historical principles and case studies, international law, naval missions and functions, doctrine, and forces capabilities are examined. Warfare principles are introduced and decision making is exercised in a series of Littoral and Joint Task Force problems. This course culminates in a war game scenario designed to emphasize the planning processes and to synthesize the concepts of the course.

**STRATEGY AND POLICY** - This course offers an examination in depth of a series of case studies in military and diplomatic history, international relations, and national security affairs. Among topics covered are the relationships between foreign policies and military strategies, the use of war as a political instrument, civil-military relations, alliance politics,

policies of war avoidance, strategic theory, maritime strategy and sea power.

**NATIONAL SECURITY DECISION MAKING** - The National Security Decision Making (NSDM) Study is an executive development course which educates students in the effective selection and leadership of armed forces within national resource constraints. The course provides instruction in: the strategic planning and selection of future military forces; systematic approaches to programmatic resource choices under conditions of high uncertainty; and the nature of economic, political, organizational and behavioral factors affecting selection and command of military forces. Selection of concepts and materials is predicated on the belief that an effective career executive does not apply discrete disciplines, but rather is required to synthesize many disciplines relevant to different situations. Moreover, the appropriate point of view is an integrative one that seeks a balanced use of reasoning based on both an academic and professional foundation. For this reason, the NSDM study employs a multi-discipline approach, synthesizing selected concepts from economics, political science, strategy, operations research, leadership, psychology, management control, and other related disciplines.

**INTERNATIONAL LAW** - The International Law elective is designed to provide an understanding of basic principles of international law and a means of analyzing their applicability to areas of military operations, thereby enhancing the capability to make sound military decisions.

**INTERNATIONAL RELATIONS** - The International Relations elective investigates fundamental principles, concepts, and political processes in international affairs. The course provides a theoretical and practical framework within which events on the international scene may be organized, viewed and understood.

#### ADMINISTRATIVE SUMMARY

The nonresident program uses two modes of instruction:

- correspondence courses offered worldwide, and,
- seminars offered at specified sites throughout the United States.

The College of Continuing Education enrolls mid-grade (Sea-service O-4 and O-3) officers. As space permits, more senior officers and Department of the Navy civilians may be enrolled in a correspondence course curriculum. Depending on openings available,

## NAVAL WAR COLLEGE COLLEGE OF CONTINUING EDUCATION

a broader spectrum of officers may apply for the nonresident seminar program.

At any time, qualified students may apply for enrollment in a correspondence course. Once enrolled, students are expected to submit graduate level responses at approximately 6-8 week intervals. Students will submit a variety of written assignments in the form of self-assessments, answers to multiple choice questions, and essays. Graduate writing standards apply to all work. Most students will need to devote a minimum of 5 to 7 hours weekly to meet submission requirements. Students who are unable to meet submission intervals will be involuntarily dropped from the program.

Evening seminar programs offer the same core courses and run from September through May, meeting one night weekly. Students must apply for these courses during the limited enrollment period from June through July annually. These courses are offered currently in the following locations:

Annapolis, Maryland  
Athens, Georgia  
Dahlgren, Virginia  
Everett, Washington  
Ft. Meade, Maryland  
Great Lakes, Illinois  
Jacksonville, Florida  
Monterey, California  
New Orleans, Louisiana  
Newport, Rhode Island  
Norfolk, Virginia  
Patuxent River, Maryland  
Pensacola, Florida  
San Diego, California  
San Francisco, California  
Washington, DC area

For further information and an application, write to:

President (Code 1G)  
Naval War College  
College of Continuing Education  
686 Cushing Road  
Newport RI 02841-1207

# **PART 7**

## **NAVAL METEOROLOGY AND OCEANOGRAPHY COMMAND TRAINING PRODUCTS**

### **INTRODUCTION**

The Naval Oceanographic Office, by direction from Commander, Naval Meteorology and Oceanography Command administers on board training material in the form of Training Publications and Software to assist operational commanders with ongoing and refresher training of personnel in the areas of Meteorology and Oceanography (METOC), and Mapping, Charting and Geodesy (MC&G).

### **ELIGIBILITY**

1. A majority of METOC and MC&G courses are designed and recommended for Aerographer's Mates, Marine Corps weather personnel, and to some extent Air Controlmen and Quartermasters. Requests from other personnel will be evaluated on a case by case basis. NAVOCEANONOTE 1552, Annual List of Training Publications and Material offers a complete list of METOC training, reference and software material available from NAVOCEANO. Enclosure (4) of the Note is Form 1552/1 (Rev 12/96) for ordering material. Forward all correspondence to:

**Commanding Officer  
Naval Oceanographic Office, Code N72  
1002 Balch Blvd  
Stennis Space Center, MS 39522-5001**

2. NAVOCEANO manages two Navy correspondence courses that are open to all Navy and Marine Corps personnel. Introduction to Meteorology

(METOC 50-1T-9605) and Oceanography (METOC 60-1T-9601), are managed locally by METOC activities. All other personnel must enroll in the course by name via correspondence with NAVOCEANO N72. All materials issued by NAVOCEANO must be returned with the final exam for grading. A certificate of completion will be forwarded to an individual's command upon successful completion of the course. Following is a brief description of each course:

### **INTRODUCTION TO METEOROLOGY** METOC 50-1T-9605

This course is designed to introduce you to the meteorological and physical concepts involved in the formation of weather systems and weather patterns. It also provides an understanding of how weather affects humans and how humans affect weather.

### **OCEANOGRAPHY** METOC 60-1T-9601

This course discusses the geological history of the oceans and the relationship between the land mass of Earth and the oceans. It also discusses the physical, chemical and biological constituents of the ocean, and provides an understanding of the complex interaction between air, sea, earth and life, and how man and time are affecting these interrelationships.

**NAVAL METEOROLOGY AND OCEANOGRAPHY COMMAND  
NONRESIDENT TRAINING PRODUCTS**

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## PART 8

# FOREIGN AND ENGLISH LANGUAGE NONRESIDENT TRAINING PRODUCTS

### INTRODUCTION

A nonresident language program is any language program or course of instruction operated by any Naval Command or Reserve Component (exclusive of the Naval Academy, overseas dependents' schools, and programs conducted strictly for the purpose of voluntary personal development or obtaining academic credit). The Commandant, Defense Language Institute Foreign Language Center (DLIFLC, ATFL-OPP-PP), Presidio of Monterey, CA 93944-5006 (DSN 878-5112/5319 OR com 408-242-5112/5319) is responsible for all mission and/or job related foreign language training Command Language Programs (CLPs). The Commandant, Defense Language Institute English Language Center (DLIELC), 2235 Andrews Avenue, Lackland AFB, TX 78236-5259 (DSN 473-3783 or COM 210-671-3783) manages the English language area. Both have catalogs of materials which may be obtained by writing the appropriate Center.

### POLICIES

The following policies apply to nonresident language training.

- Nonresident language programs shall be managed in accordance with OPNAVINST 1550.7B.
- In accordance with OPNAVINST 1550.7B, the Navy Service Program Manager (SPM) is the Navy representative for nonresident foreign language programs. The Navy SPM's address:  
Chief of Naval Operations, OP-13F  
Navy Annex, Federal Building #2  
Washington, DC 20350  
(Ref: OPNAVINST 1550.7B, 1-4-a-(4), 1-4-c-(2), (9), (14))
- The establishment of a formal nonresident language program requires the approval of the appropriate Defense Language Institute Center.

### ESTABLISHING A NONRESIDENT LANGUAGE PROGRAM

All commands with mission and/or job related requirements are encouraged to establish a nonresident program. Commands which are located in

non-English speaking countries can purchase materials from DLIFLC for cultural orientation.

Commands having a mission requirement for a language program will forward requests to the appropriate Defense Language Institute Center, their major command, and the Chief of Naval Operations. The request will contain the following information:

1. The language program mission and course objectives, including skill levels desired.
2. The number of students to be trained annually (by language).
3. The availability of training facilities, including language laboratory systems and portable language tape recorders.
4. A listing of available instructional materials.
5. Instructor(s) qualifications.
6. Total length of course in hours and weeks.
7. Instructional hours per day, per week.
8. Estimated direct operating costs.
9. Screening and proficiency tests as applicable.

The appropriate Defense Language Institute Center will review the technical aspects of the proposed language program and will approve and/or make appropriate technical recommendations to the requesting command.

Commands will be advised concerning availability of suitable materials.

### SELF-PACED AND SELF-INSTRUCTIONAL LEARNING

Self-study foreign language courses such as Headstart programs are available at cost for individual members of the Armed Services from:

Defense Language Institute  
Foreign Language Center  
ATTN: ATFL-OPP-PP  
Presidio of Monterey, CA 93944-5006  
(Ref: DLIFLC Pam 350-5, Catalog of Instructional Materials, January 1993, p. 1-2)

Service members who are not in a unit with a CLP and who have taken the Defense Language Proficiency Test (DLPT) within the past calendar year, scored a minimum of Listening 1, Reading 1,

## FOREIGN AND ENGLISH LANGUAGE NONRESIDENT TRAINING PRODUCTS

and forward a photocopy of their DLPT scores to DLIFLC will be provided a one-time issue of appropriate Refresher-Maintenance language materials gratis. (Ref: OPNAVINST 1550-7B, 15 March 1987, 3-4-e)

Service members who wish to learn a foreign language for personal development may purchase appropriate materials from DLIFLC. A check or money order payable to the TREASURER OF THE UNITED STATES should be sent to:

DLIFLC  
ATTN: ATFL-OPP-PP  
Presidio of Monterey, CA 93944-5006

Phone: DSN 878-5112/5319  
COM 408-242-5112/5319

DLIFLC Pam 350-5 (Catalog of Instructional Materials, January 1993) contains a list of currently available courses and the corresponding prices.

Units wishing to purchase materials can do so by forwarding a copy of DA form 448 (Military Interdepartmental Purchase Request) to DLIFLC.

Units with mission related requirements will be provided initial stocks of DLI nonresident program materials gratis upon approval of their request to establish a CLP. Requisitions for additional stocks will be submitted to the Service Program Manager for validation and forwarding to the Commandant, DLIFLC (Ref: OPNAVINST 1550.7B, 15 March 1987, 3-4-a).

Service members not associated with an approved program will be provided appropriate materials when their orders explicitly indicate that they are required to acquire a certain level of proficiency in a foreign language prior to assignment overseas (Ref: OPNAVINST 1550.7B, 15 March 1987, 3-4-e).

Any questions pertaining to establishment of foreign language training programs, acquisition of training materials, or requesting training services form DLIFLC should be directed to:

COMMANDANT  
DLIFLC  
ATTN: ATFL-OPP-PP  
Presidio of Monterey, CA 93944-5006

Phone: DSN 878-5112/5319  
COM 408-242-5112/5219

We will continue to support these activities in accordance with paragraphs 3-3 and 3-4 of AR 350-20, Training Management of the Defense Language Program, 15 March 1987.

Materials will be issued over the counter, mailed or shipped by the stocking centers if requested.

### TECHNICAL ASSISTANCE

A command may request technical assistance to establish a language training program or for ongoing education programs from the appropriate Defense Language Center. Assistance will be in the form of written guidance and/or on site evaluation and will include information on teaching methodologies, programs of instruction, course materials, instructor qualifications, and instructor training.

If materials are not available in the inventory of the appropriate Defense Language Center, suitable materials or sources for such materials will be recommended. In certain cases, upon request, the appropriate Defense Language Center will initiate the development of course materials for any program in which there is a continuing requirement.

### FOREIGN APTITUDE AND PROFICIENCY TEST

Aptitude for language learning is measured by the Defense Language Aptitude Battery (DLAB). Proficiency levels in speaking, reading, and listening to a specific language are measured by Defense Language Proficiency Tests (DLPT). Tests may be ordered from Commanding Officer, Naval Education and Training Program Management Support Activity (NETPMSA Code 322), 6490 Saufley Field Road, Pensacola, Florida 32509-5126, COMM (904) 452-1365 or DSN 922-1365. Provide name, rank, SSAN, and purpose of testing. Cassette tapes will be provided for the listening part of the test. All tests are controlled items and require security container storage. Tests results are sent by NETPMSA to COMNAVMILPERSCOM (NMPC 313) for entry on service records.

## PART 9

# CHAPLAIN CORPS NONRESIDENT TRAINING PRODUCTS

### ***Handbook for Chaplains***

SP EDITION: 1987  
NAVEDTRA NUMBER: 113-A

This handbook is designed to assist chaplains as supervisors and managers of the Religious Program Specialist Rating. Covers Religious Program Personnel Management, on-the-job training, and occupational standards.

**NOTE:** Personnel requesting the Handbook for Chaplains, NAVEDTRA 113-A, must submit their request in writing to the following address:

Commanding Officer  
NETPDTC (Code OOG)  
6490 Saufley Field Road  
Pensacola FL 32509-5237

DSN: 922-1655  
COMMERCIAL: (850) 452-1655  
FAX: 922-1658

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### **OTHER CHAPLAIN CORPS COURSES**

The courses listed below are administered by Naval Education and Training Professional Development and Technology Center (NETPDTC). NETPDTC will enroll you, grade your course assignments, and certify your satisfactory course completion.

To enroll in one of the courses listed below, complete an Application For Enrollment in Correspondence Course, NETPDTC 1730/1 (6-97) form and return it to the NETPDTC address noted on the form. (A blank application form is provided at page 9-3. You may make copies of this form.)

NETPDTC will process your enrollment form and mail your course materials by Special Fourth Class Rate. You should expect to receive your course materials in about 2-6 weeks.

**NOTE: THE MAXIMUM NUMBER OF CHAPLAIN COURSES YOU CAN BE ENROLLED IN AT ONE TIME IS TWO (2).**

Direct any questions about **course enrollment** to:

Commanding Officer  
NETPDTC (Code N3216)  
6490 Saufley Field Road  
Pensacola FL 32559-5000

DSN: 922-1511/1859  
COMMERCIAL: (850) 452-1511/1859

Direct any questions about **course content** to:

Commanding Officer  
NETPDTC (Code OOG)  
6490 Saufley Field Road  
Pensacola FL 32509-5237

DSN: 922-1655  
COMMERCIAL: (850) 452-1655  
FAX: 922-1658

## PART 9

# CHAPLAIN CORPS NONRESIDENT TRAINING PRODUCTS

### ***History of the Chaplain Corps, Part I***

NRTC EDITION: 1982  
NAVEDTRA NUMBER: 10906-4  
ASSIGNMENTS: 8    POINTS: 12

Presents the History of the Chaplain Corps from the days of the Continental Navy to 8 September 1939.

Special Information: The text for this course, *The History of the Chaplain Corps, United States Navy, Volume One, NAVPERS 15807*, is supplied by NETPDTC.

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### ***History of the Chaplain Corps, Part 2***

NRTC EDITION: 1994  
NAVEDTRA NUMBER: 13094  
ASSIGNMENTS: 5    POINTS: 8

Continues the History of the Chaplain Corps through 1949.

Special Information: The text for this course, *The History of the Chaplain Corps, United States Navy, Volume Two, NAVPERS 15808*, is supplied by NETPDTC.

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### ***History of the Chaplain Corps, Part 3***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 13095  
ASSIGNMENTS: 10    POINTS: 15

Presents the History of the Chaplain Corps during the Korean Conflict from June 1950 to June 1954.

Special Information: The text for this course, *The History of the Chaplain Corps, United States Navy, Volume Six, NAVPERS 15936*, is supplied by NETPDTC.

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### ***History of the Chaplain Corps, Part IV***

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 13096  
ASSIGNMENTS: 5    POINTS: 8

ERRATA #1 DATED: 1991

Part IV presents the History of the Chaplain Corps during the Vietnam conflict between 1954 and 1975.

Special Information: The text for this course, *The History of the Chaplain Corps, United States Navy, Volume IX, Chaplains with U.S. Naval Units in Vietnam 1954-1975, NAVPERS 15508*, is supplied by NETPDTC.

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### ***History of the Chaplain Corps, Part V***

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 13097  
ASSIGNMENTS: 4    POINTS: 6

ERRATA #1 DATED: 1992

This course covers the historical contributions made by the U.S. Chaplain Corps to Marines in Vietnam from 1962 through 1971. Specifically, the course details circumstances surrounding Chaplain Corps' efforts to do the following: minister to Marines in need during wartime; assess and meet the increasing, multiple demands of Marines in all areas of combat activity; and counsel and aid each Marine on an individual basis.

Special Information: The text for this course, *The Chaplains with Marines in Vietnam 1962-1971*, is supplied by NETPDTC.

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# CHAPLAIN CORPS NONRESIDENT TRAINING PRODUCTS

THIS ORDER FORM IS LIMITED TO THE COURSES LISTED IN COURSE NUMBER BLOCK.

## INSTRUCTIONS TO APPLICANT

1. Fill in the boxes below.
2. All applicable boxes must be completed or the application will be returned.
3. Mail application to:

COMMANDING OFFICER  
NETPDTC CODE N3216  
6490 SAUFLEY FIELD ROAD  
PENSACOLA FL 32559-5000

4. If course materials have not been received within 6 weeks, please call (DSN) 922-1511/1859 or commercial (850) 452-1511/1859.

*Print or Type*

NAME:

(Last, First, Middle Initial)

ADDRESS:

(Street)

(City, State Zip Code)

PHONE:

RANK/RATE:

SOCIAL SECURITY NO:

### MARK BRANCH AND STATUS

USN \_\_\_\_\_ Active \_\_\_\_\_  
USNR \_\_\_\_\_ Inactive \_\_\_\_\_  
USMC \_\_\_\_\_ IRR \_\_\_\_\_

### COURSE NUMBER:

(Check requested course--**REMEMBER**--maximum number for enrollment is 2 courses at one time.)

PART 1, NAVEDTRA 10906-4 \_\_\_\_\_  
PART 2, NAVEDTRA 13094 \_\_\_\_\_  
PART 3, NAVEDTRA 13095 \_\_\_\_\_  
PART 4, NAVEDTRA 13096 \_\_\_\_\_  
PART 5, NAVEDTRA 13097 \_\_\_\_\_

SIGNATURE OF APPLICANT

DATE:

## PRIVACY ACT STATEMENT

Under the authority of Title 5 USC 301, information regarding your military or other DOD status is requested in order to evaluate individual applications for enrollment in the Naval Correspondence Course program. The information will also be used to process course completion letters and to construct and maintain an official and continuing manual and/or automated record of correspondence course participation. The cumulative course participation record will not be divulged without written authorization, to anyone other than those within DOD for official use in determining performance and effecting organizational and administrative management. The transmittal of pertinent information to persons/institutions of the individual selection may be effected by a signed statement by the individual concerned. Completion of this form is voluntary; however, failure to provide the required information will result in an inability to process this application.

Application For Enrollment in Correspondence Course  
NETPTDC 1730/1 (6-97)

# CHAPLAIN CORPS NONRESIDENT TRAINING PRODUCTS

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## PART 10

### MANDATORY COURSE REQUIREMENTS

Part 10 lists MANDATORY course requirements for advancement eligibility. Table 1 lists mandatory Military requirements; Table 2 lists mandatory Apprenticeship requirements; and Table 3 lists mandatory Rating-specific requirements. For simplicity, **COURSE TITLES** are listed followed by the NAVEDTRA **NUMBERS** of both the course (NRTC) and the training manual (TRAMAN).

The TRAMANS and NRTCs listed in Tables 1, 2, and 3 **must** be ordered by stock number as shown in Part 1 of this catalog. The following numbering system is used for **MOST** TRAMANS and NRTCs:

- TRAMANS and TRAMAN/NRTCs normally start with a 1, such as 10301-1 or 12360.
- NRTCs normally start with an 8 or 7, and sometimes a 6, such as 82043, 70335, or 62215.
- NRTCs that have no associated TRAMAN normally start with 13, such as 13090, or 13098.

Candidates are **NOT** required to complete the *REVISED* edition of a mandatory course if they have completed the previously required edition. For example, a candidate for STGC who has previously completed an STG 1&C course as a candidate for STG1 would not be required to complete the "revised" STG 1&C course for a future exam cycle. However, if a **NEW** mandatory course is **ADDED** to the paygrade for which candidates are competing, they must complete the added requirement. For example: an E-4 has completed the mandatory course requirement for E-5, and a new mandatory course requirement is added to the E-5 paygrade. The E-4 **MUST** complete the added requirement.

Table 1.--Mandatory Military Course Requirements  
for All Paygrades

PAYGRADE	MANDATORY MILITARY COURSE REQUIREMENTS
E-3	BASIC MILITARY REQUIREMENTS 12043/82043
E-4	MILITARY REQUIREMENTS FOR PO3 12044/82044
E-5	MILITARY REQUIREMENTS FOR PO2 12045/82045
E-6	MILITARY REQUIREMENTS FOR PO1 12046/82046
E-7	MILITARY REQUIREMENTS FOR CPO 12047/82047
E-8/E-9	MILITARY REQUIREMENTS FOR SENIOR & MASTER CPO 12048/82048

Table 2.--Mandatory Apprenticeship Course Requirements  
Per BUPERSINST 1430.16 (Advancement Manual), graduating from the Apprenticeship Training Program (ATP) satisfies the requirement for completion of the AN/FN/SN course for advancement to paygrade E-3.

APPRENTICESHIP	MANDATORY APPRENTICESHIP COURSE REQUIREMENTS
AIRMAN	AIRMAN 12000/82000
CONSTRUCTIONMAN	NO REQUIREMENTS
DENTALMAN	NO REQUIREMENTS
FIREMAN	FIREMAN 12001/82001
HOSPITALMAN	NO REQUIREMENTS
SEAMAN	SEAMAN 12016/82016

# MANDATORY COURSE REQUIREMENTS

**Table 3.--Mandatory Rating-Specific Course Requirements  
for All Ratings**

Per BUPERSINST 1430.16 (Advancement Manual), successful completion of class "A" school fulfills the requirements for completion of the mandatory rate courses when participating in the E-4 examination only (does not apply to CT and PH ratings).

RATING	MANDATORY RATING-SPECIFIC COURSE REQUIREMENTS			
	E-4	E-5	E-6	E-7
ABE	ABE 3&2 12360-A/82360-A		ABE 1&C 12362/82362	
ABF	ABF 3&2 12364/72364		ABF 1&C 12364/82364	
ABH	ABH 3&2 12368/82368		ABH 1&C 12370/82370	
AC	NO REQUIREMENTS	AC2 12390/72390	AC 1&C 12390/82390	
AD	AD 3&2 12300/82300 AMR FUNDAMENTALS 12010-B		NO REQUIREMENTS	
AE	AE 3&2 10348-G/80348-A AMR FUNDAMENTALS 12010-B		NO REQUIREMENTS	
AG	AG3 12850/82850 NEETS MOD 22 B72-22-00-88 172-22-00-88	AG2 V1 10370/80370 AG2 V2 10371/80371-A	AG 1&C 12853/82853	
AK	AK3 12654/82654	AK2 12655/82655	AK 1&C 12657/82657	
AME	AMR FUNDAMENTALS 12010-B	AME2 10401/80401 AMR FUNDAMENTALS 12010-B	AME 1&C 12318/82318	
AMH	AM (H&S) 3&2 12338/82338 AMR FUNDAMENTALS 12010-B		NO REQUIREMENTS	
AMS	AM (H&S) 3&2 12338/82338 AMR FUNDAMENTALS 12010-B		NO REQUIREMENTS	
AO	AO 3&2 12309/72309 AMR FUNDAMENTALS 12010-B		AO1 12309/82309	NO REQUIREMENTS
AS	AS3 10356/80356 AMR FUNDAMENTALS 12010-B	AS2 10357/80357 AMR FUNDAMENTALS 12010-B	AS1 10358/80358	NO REQUIREMENTS

# MANDATORY COURSE REQUIREMENTS

**Table 3.--Mandatory Rating-Specific Course Requirements  
for All Ratings**

Per BUPERSINST 1430.16 (Advancement Manual), successful completion of class "A" school fulfills the requirements for completion of the mandatory rate courses when participating in the E-4 examination only (does not apply to CT and PH ratings).

RATING	MANDATORY RATING-SPECIFIC COURSE REQUIREMENTS			
	E-4	E-5	E-6	E-7
AT(I)	AT3 12329/82329 AMR FUNDAMENTALS 12010-B	AT2(I) 12334/82334 AMR FUNDAMENTALS 12010-B	NO REQUIREMENTS	
AT(O)	AT3 12329/82329 AMR FUNDAMENTALS 12010-B	AMR FUNDAMENTALS 12010-B	AT1(O) 12331/82331	NO REQUIREMENTS
AW	AW 3&2 MOD 1 A60-01-45-86/ 060-01-45-86 AW3 MOD 2 A60-02-44-88/ 060-02-44-88 AW 3&2 MOD 3 A60-03-45-90/ 060-03-45-90 AW 3&2 MOD 4 A60-04-45-92/ 060-04-45-92	AW 3&2 MOD 1 A60-01-45-86/ 060-01-45-86 AW 3&2 MOD 3 A60-03-45-90/ 060-03-45-90 AW 3&2 MOD 4 A60-04-45-92/ 060-04-45-92	AW 1&C 12810/82810	
AZ	AZ 3&2 12324/82324		NO REQUIREMENTS	
BM	BM 3&2 12100/72100		BM 1&C 12100/82100	
BU	BU 3&2 V1 12520/82520 BU 3&2 V2 12521/82521 SEABEE COMBAT HANDBOOK V1 12003/82003		BU1 10649-G1/80649 NCF/SEABEE 1&C 12543/82543 SEABEE COMBAT HANDBOOK V2 12004/82004	NCF/SEABEE 1&C 12543/82543 SEABEE COMBAT HANDBOOK V2 12004/82004
CE	CE3 12523/82523 SEABEE COMBAT HANDBOOK V1 12003/82003	CE 3&2 10636-J/80636 SEABEE COMBAT HANDBOOK V1 12003/82003	CE1 12525/82525 NCF/SEABEE 1&C 12543/82543 SEABEE COMBAT HANDBOOK V2 12004/82004	NCF/SEABEE 1&C 12543/82543 SEABEE COMBAT HANDBOOK V2 12004/82004

# MANDATORY COURSE REQUIREMENTS

Table 3.--Mandatory Rating-Specific Course Requirements  
for All Ratings

Per BUPERSINST 1430.16 (Advancement Manual), successful completion of class "A" school fulfills the requirements for completion of the mandatory rate courses when participating in the E-4 examination only (does not apply to CT and PH ratings).

RATING	MANDATORY RATING-SPECIFIC COURSE REQUIREMENTS			
	E-4	E-5	E-6	E-7
CM	CM 3&2 10644-G1 SEABEE COMBAT HANDBOOK V1 12003/82003		CM ADVANCED 12528/82528 NCF/SEABEE 1&C 12543/82543 SEABEE COMBAT HANDBOOK V2 12004/82004	NCF/SEABEE 1&C 12543/82543 SEABEE COMBAT HANDBOOK V2 12004/82004
CT RATINGS	SEE PART 2 OF THIS CATALOG			
DC	DC 3&2 10572/80572		DC 1&C 12222/82222	
DK	DK 3&2 12658/82658		DK 1&C 12660/82660	
DM	DM 3&2 V1 12720/72720 DM 3&2 V4 12723		DM 1&C V1 12720/82720 DM 1&C V4 12723	
	<b>NOTE:</b> DM 3&2 Vol 4 and DM 1&C Vol 4 are <b>NEW ADDED</b> mandatory course requirements for DM. <b>IF</b> these new courses are available in time for candidates to complete them, they are mandatory for Mar 98 exams. <b>IF NOT</b> available in time for Mar 98 exams, they are mandatory course requirements for Sep 98 and later exams, as applicable.			

# MANDATORY COURSE REQUIREMENTS

Table 3.--Mandatory Rating-Specific Course Requirements  
for All Ratings

Per BUPERSINST 1430.16 (Advancement Manual), successful completion of class "A" school fulfills the requirements for completion of the mandatory rate courses when participating in the E-4 examination only (does not apply to CT and PH ratings).

RATING	MANDATORY RATING-SPECIFIC COURSE REQUIREMENTS			
	E-4	E-5	E-6	E-7
DS	DS TRAINING SERIES V1 - V3 12501/82501 12502/82502 12503/82503	DS TRAINING SERIES V1 - V5 12501/82501 12502/82502 12503/82503 12504/82504 12505/82505	DS TRAINING SERIES V6 12506/82506	
	<b>NOTE 1:</b> The <b>FIRST</b> exams for the DS rating merging into the ET(Surface) or FC ratings are in SEP 98. New ET and FC courses for these mergers are now available.			
	<b>NOTE 2:</b> If you <b>HAVE NOT</b> satisfied mandatory course requirements for SEP 98 and later exams as outlined in NOTE 3 below, you <b>MUST</b> qualify for these exams by completing the new FC or ET(Surface) courses.			
	<b>NOTE 3:</b> If you have <b>ALREADY</b> satisfied mandatory course requirements for SEP 98 and later exams by completing the DS mandatory courses listed above, <b>PLUS</b> the following ET(Surface) or FC courses, you <b>DO NOT</b> have to requalify for these exams by completing the new FC or ET(Surface) courses.			
	<u>PAYGRADE DS/ET MERGER</u>		<u>DS/FC MERGER</u>	
	E-4	NONE	FC3	
	E-5	ET VOLS 3/4/5	FC2	
	E-6	ET VOLS 3/4/5 and ET SUPV FOR E-6	FC SUPV	
	E-7	ET VOLS 3/4/5 and ET SUPV FOR E-7	FC SUPV	
	<b>NOTE 4:</b> A Computer Based Training (CBT) course for the DS/ET and DS/FC mergers is under development and will be distributed on CD-ROM. When the CBT course is available, its completion will become a <b>MANDATORY</b> advancement requirement for paygrades E-4 through E-7.			
DT	DENTAL ASSISTANT, BASIC 12570/82570	DENTAL ASSISTANT, ADVANCED 12571/82571		
EA	EA3 10696-A/80696-A SEABEE COMBAT HANDBOOK V1 12003/82003	EA2 12540/72540 SEABEE COMBAT HANDBOOK V1 12003/82003	EA1 12540/82540-A NCF/SEABEE 1&C 12543/82543 SEABEE COMBAT HANDBOOK V2 12004/82004	NCF/SEABEE 1&C 12543/82543 SEABEE COMBAT HANDBOOK V2 12004/82004

# MANDATORY COURSE REQUIREMENTS

Table 3.--Mandatory Rating-Specific Course Requirements  
for All Ratings

Per BUPERSINST 1430.16 (Advancement Manual), successful completion of class "A" school fulfills the requirements for completion of the mandatory rate courses when participating in the E-4 examination only (does not apply to CT and PH ratings).

RATING	MANDATORY RATING-SPECIFIC COURSE REQUIREMENTS			
	E-4	E-5	E-6	E-7
EM	EM 3&2 12164/72164		EM 1&C 12164/82164	
EN	EN3 10539/80539 EN FUNDAMENTALS V1 12170/82170	EN2 12149/82149	EN 1&C 10543-E1 ENGINEERING ADMINISTRATION 12147/82147	
EO	EO BASIC 12535/82535 SEABEE COMBAT HANDBOOK V1 12003/82003		EO ADVANCED 12537/82537 NCF/SEABEE 1&C 12543/82543 SEABEE COMBAT HANDBOOK V2 12004/82004	NCF/SEABEE 1&C 12543/82543 SEABEE COMBAT HANDBOOK V2 12004/82004
ET(SS)	IC V1 12160/82160 QM 3&2 12120/72120 RM COMMS 3&2 12801/72801 NEETS MODS: 1,2,16,18,21 173-01-00-88 B72-01-00-92 172-02-00-91 172-16-00-96 B72-16-00-96 172-18-00-84 172-21-00-87 B72-21-00-87	ET V1-V3/ V5-V7/V9 12411/82411 12412/82412 12413-A 12415/82415 12416-A/82416-A 12417/82417 12419/82419 QM 3&2 12120/72120 RM COMMS 3&2 12801/72801 IC V2 12161/82161	ET SUPV (ET1) 12410/72410 IC V3 12162/82162 QM 1&C 12120/82120	ET SUPV (ETC) 12410/82410 IC V3 12162/82162 QM 1&C 12120/82120
	<b>NOTE:</b> This lists ET(Submarine) mandatory course requirements for the ET/IC/RM/QM (SS) merger. If you have <b>ALREADY</b> completed mandatory course requirements for a lower paygrade in your former rating, you're <b>NOT</b> required to requalify for that lower paygrade. New courses for the ET(Submarine) rating are under development. In the interim, you <b>MUST</b> complete these mandatory course requirements for the next higher paygrade, as applicable. Candidates who qualify in this manner <b>ARE NOT</b> required to requalify when new ET(Submarine) courses become available.			



# MANDATORY COURSE REQUIREMENTS

Table 3.--Mandatory Rating-Specific Course Requirements  
for All Ratings

Per BUPERSINST 1430.16 (Advancement Manual), successful completion of class "A" school fulfills the requirements for completion of the mandatory rate courses when participating in the E-4 examination only (does not apply to CT and PH ratings).

RATING	MANDATORY RATING-SPECIFIC COURSE REQUIREMENTS													
	E-4	E-5	E-6	E-7										
ET(SW)	NONE	ET V1 - V9 12411/82411 12412/82412 12413-A 12414/82414 12415/82415 12416-A/82416-A 12417/82417 12418/82418 12419/82419	ET SUPV (ET1) 12410/72410	ET SUPV (ETC) 12410/82410										
<p><b>NOTE 1 :</b> Revised ET Volumes 3 and 6 have been updated to reflect the merger of the DS rating into the ET rating.</p> <p>--If you <b>HAVE</b> already satisfied mandatory ET course requirements for JAN 98 or MAR 98 exams, you <b>DO NOT</b> have to complete the revised ET Volumes 3 and 6.</p> <p>--If you <b>HAVE NOT</b> satisfied mandatory ET course requirements for JAN 98 or MAR 98 exams, and the revised ET Volumes 3 and 6 are available in time for you to complete them, they are mandatory for these exams, as applicable. If these revised ET courses are <b>NOT</b> available, you may satisfy mandatory course requirements by completing the previously mandatory ET courses.</p> <p><b>NOTE 2:</b> The <b>FIRST</b> exams for the ET/DS merger are in <b>SEP 98</b>.</p> <p>--If you <b>HAVE NOT</b> satisfied mandatory course requirements for SEP 98 and later exams, you <b>MUST</b> satisfy mandatory course requirements for SEP 98 and later exams by completing the mandatory ET courses.</p> <p>--If you <b>HAVE</b> already satisfied mandatory ET course requirements for SEP 98 and later exams by completing the following interim ET/DS merger requirements, you <b>ARE NOT</b> required to requalify by completing the revised ET courses. If you <b>HAVE NOT</b> already qualified for SEP 98 and later exams, you <b>MUST</b> qualify by completing the mandatory ET courses.</p> <table border="0"> <tr> <td><u>PAYGRADE</u></td> <td><u>INTERIM REQUIREMENTS</u></td> </tr> <tr> <td>E-4</td> <td>NONE</td> </tr> <tr> <td>E-5</td> <td>ET Volumes 1-9 and DS Volume 5</td> </tr> <tr> <td>E-6</td> <td>ET Supervisor for ET1 and DS Volume 5</td> </tr> <tr> <td>E-7</td> <td>ET Supervisor for ETC and DS Volume 5</td> </tr> </table> <p><b>NOTE 3:</b> A Computer Based Training (CBT) course for the ET/DS merger is under development and will be distributed on CD-ROM. When the CBT course is available, its completion will become a <b>MANDATORY</b> advancement requirement for paygrades <b>E-4</b> through <b>E-7</b>.</p>					<u>PAYGRADE</u>	<u>INTERIM REQUIREMENTS</u>	E-4	NONE	E-5	ET Volumes 1-9 and DS Volume 5	E-6	ET Supervisor for ET1 and DS Volume 5	E-7	ET Supervisor for ETC and DS Volume 5
<u>PAYGRADE</u>	<u>INTERIM REQUIREMENTS</u>													
E-4	NONE													
E-5	ET Volumes 1-9 and DS Volume 5													
E-6	ET Supervisor for ET1 and DS Volume 5													
E-7	ET Supervisor for ETC and DS Volume 5													

# MANDATORY COURSE REQUIREMENTS

Table 3.--Mandatory Rating-Specific Course Requirements  
for All Ratings

Per BUPERSINST 1430.16 (Advancement Manual), successful completion of class "A" school fulfills the requirements for completion of the mandatory rate courses when participating in the E-4 examination only (does not apply to CT and PH ratings).

RATING	MANDATORY RATING-SPECIFIC COURSE REQUIREMENTS													
	E-4	E-5	E-6	E-7										
EW	EW 3&2 12478/82478		EW 1&C 12480/82480											
FC	FC V1-V5 12403 12404 12405 12406 12407		FC V6 12408 FC SUPERVISOR 12409/82409											
	<p><b>NOTE 1:</b> FC Volumes 1-6 are <b>NEW</b> mandatory course requirements that reflect the merger of the DS rating into the FC rating.</p> <p>--If you <b>HAVE</b> already satisfied mandatory FC course requirements for JAN 98 or MAR 98 exams, you <b>DO NOT</b> have to complete the new FC Volumes 1-6.</p> <p>--If you <b>HAVE NOT</b> satisfied mandatory FC course requirements for JAN 98 or MAR 98 exams, and the new FC Volumes 1-6 are available in time for you to complete them, they are mandatory for these exams, as applicable. If these new FC courses are <b>NOT</b> available, you may satisfy mandatory course requirements by completing the previously mandatory FC courses.</p> <p><b>NOTE 2:</b> The <b>FIRST</b> exams for the FC/DS merger are in <b>SEP 98</b>.</p> <p>--If you <b>HAVE NOT</b> satisfied mandatory course requirements for SEP 98 and later exams, you <b>MUST</b> satisfy mandatory course requirements for SEP 98 and later exams by completing the mandatory FC courses.</p> <p>--If you <b>HAVE</b> already satisfied mandatory course requirements for SEP 98 and later exams by completing the below interim FC/DS merger requirements, you are <b>ARE NOT</b> required to complete the new FC courses.</p> <table><tr><td><u>PAYGRADE</u></td><td><u>INTERIM REQUIREMENTS</u></td></tr><tr><td>E-4</td><td>FC3</td></tr><tr><td>E-5</td><td>FC2 and DS Volumes 2/3/4</td></tr><tr><td>E-6</td><td>FC Supervisor and DS Volumes 2/3/4</td></tr><tr><td>E-7</td><td>FC Supervisor and DS Volumes 2/3/4</td></tr></table> <p><b>NOTE 3:</b> A <b>Computer Based Training (CBT)</b> course for the FC/DS merger is under development and will be distributed on CD-ROM. When the CBT course is available, its completion will become a <b>MANDATORY</b> advancement requirement for paygrades <b>E-4</b> through <b>E-7</b>.</p>				<u>PAYGRADE</u>	<u>INTERIM REQUIREMENTS</u>	E-4	FC3	E-5	FC2 and DS Volumes 2/3/4	E-6	FC Supervisor and DS Volumes 2/3/4	E-7	FC Supervisor and DS Volumes 2/3/4
	<u>PAYGRADE</u>	<u>INTERIM REQUIREMENTS</u>												
E-4	FC3													
E-5	FC2 and DS Volumes 2/3/4													
E-6	FC Supervisor and DS Volumes 2/3/4													
E-7	FC Supervisor and DS Volumes 2/3/4													
FT	FTG 3&2 12400/82400		FT 1&C 12402/82402											
GM	GM 3&2 12443/72443		GM 1&C 12443/82443											

# MANDATORY COURSE REQUIREMENTS

Table 3.--Mandatory Rating-Specific Course Requirements  
for All Ratings

Per BUPERSINST 1430.16 (Advancement Manual), successful completion of class "A" school fulfills the requirements for completion of the mandatory rate courses when participating in the E-4 examination only (does not apply to CT and PH ratings).

RATING	MANDATORY RATING-SPECIFIC COURSE REQUIREMENTS			
	E-4	E-5	E-6	E-7
GSE	GSE3/GSM3 V1 10563/80563 GSE3/GSM3 V2 10564/80564	GSE2 12153/82153	GS SUPERVISOR 12158/82158 ENGINEERING ADMINISTRATION 12147/82147	
GSM	GSE3/GSM3 V1 10563/80563 GSE3/GSM3 V2 10564/80564	GSM2 12157/82157	GS SUPERVISOR 12158/82158 ENGINEERING ADMINISTRATION 12147/82147	
HM	HM 3&2 10669-C/80669		HM 1&C 10670-C/80670	
HT	HT 12219/82219			
IC	IC V1 12160/82160	IC V2 12161/82161	IC V3 12162/82162	
IM	IM 3&2 10193-D/80193		IM 1&C 12202/82202	
IS	IS 3&2 V1 12804/82804 IS 3&2 V3 10273/80273		IS 1&C 12806/82806	
JO	JO 3&2 12704/82704	JO 3&2 12704/82704 PUBLIC AFFAIRS POLICY AND REGULATIONS 13086	JO 1&C 12706/82706	
LI	LI 3&2 10451/80451		LI 1&C 10451/80452	
LN	LN 3&2 12609/72609		LN 1&C 12609/82609	

# MANDATORY COURSE REQUIREMENTS

**Table 3.--Mandatory Rating-Specific Course Requirements  
for All Ratings**

Per BUPERSINST 1430.16 (Advancement Manual), successful completion of class "A" school fulfills the requirements for completion of the mandatory rate courses when participating in the E-4 examination only (does not apply to CT and PH ratings).

RATING	MANDATORY RATING-SPECIFIC COURSE REQUIREMENTS			
	E-4	E-5	E-6	E-7
MA	MA 12740/82740			
MM(SS)	MM 3&2 12144/82144 TM3 10168/80168	MM 3&2 12144/82144 TM2 12435/82435	TM 1&C 10164-D	
	<b>NOTE:</b> This lists MM(Submarine) mandatory courses for the MM/TM merger. If candidates have <b>ALREADY</b> completed mandatory MM or TM course requirements for a lower paygrade, they're <b>NOT</b> required to requalify for that lower paygrade. New courses for the MM(Submarine) rating are under development. In the interim, candidates <b>MUST</b> complete these mandatory course requirements for the next higher paygrade, as applicable. Candidates who qualify in this manner <b>ARE NOT</b> required to requalify when new MM(Submarine) courses become available.			
MM(SW)	MM 3&2 (SURFACE) 12146/82146		MM 1&C (SURFACE) 12145/82145	
	<b>NOTE 1:</b> This lists MM(Surface) mandatory course requirements. If candidates have <b>ALREADY</b> completed mandatory MM or BT course requirements for a lower paygrade, they're <b>NOT</b> required to requalify for that lower paygrade. The MM(Surface) 3&2 and the MM(Surface) 1&C are new courses for the MM(Surface) rating. <b>E-4</b> and <b>E-5</b> candidates <b>MUST</b> complete <b>EITHER</b> the MM(Surface) 3&2 <b>OR</b> MM 3&2 and BT 3&2. <b>E-6</b> and <b>E-7</b> candidates <b>MUST</b> complete the MM(Surface) 1&C. E-4 and E-5 candidates who have completed <b>BOTH</b> the MM 3&2 and BT 3&2 and E-6 and E-7 candidates who have completed <b>BOTH</b> the BT 1&C and Engineering Administration <b>ARE NOT</b> required to requalify by completing the new MM(Surface) courses.  <b>NOTE 2:</b> For <b>SEP 98</b> , and later, exams, E-4 and E-5 candidates who <b>HAVE NOT</b> completed <b>BOTH</b> the MM 3&2 and BT 3&2 <b>MUST</b> complete the new MM(Surface) 3&2 course.			
MN	MN V1 - V5 12448/82448 12449/72449 12450/72450 12451/82451 12452/82452		MN V2 - V3 12449/82449 12450/82450	
MR	MR3 12204-A/72204	MR 2,1&C 12204-A/82204-A		
MS	MS 3&2 12662/72662		MS 1&C 12662/82662	
MT	NO REQUIREMENTS			
MU	NO REQUIREMENTS			

# MANDATORY COURSE REQUIREMENTS

Table 3.--Mandatory Rating-Specific Course Requirements  
for All Ratings

Per BUPERSINST 1430.16 (Advancement Manual), successful completion of class "A" school fulfills the requirements for completion of the mandatory rate courses when participating in the E-4 examination only (does not apply to CT and PH ratings).

RATING	MANDATORY RATING-SPECIFIC COURSE REQUIREMENTS			
	E-4	E-5	E-6	E-7
NC(C)			NC(C) 1&C PART 1 13068	
NC(R)			NC(R) 1&C 12620/82620	
OM	OM 3 10215/70215-A	OM 2 10215/80215-A	OM 1&C 12217/822170	
OS	OS3 10105/80105	OS2 10106/80106	OS 1&C 12126/82126	
PC	PC3 10223/80223	PC2 10222/80222	PC 1&C 12602/82602	
PH	PH BASIC 12700/82700	PH ADVANCED 12701/82701		
PN	PN 3&2 12604/82604		PN 1&C 12606/82606	
PR	AMR FUNDAMENTALS 12010-B	PR2 10380/80380 AMR FUNDAMENTALS 12010-B	PR 1&C 10330/80330	
QM	QM 3&2 12120/72120		QM 1&C 12120/82120	
RM	DP 3&2 12513/82513 INTRO TO PROGRAMMING IN BASIC 10079-2 RM COMMUNICATIONS 3&2 12801/72801		DP 1&C 12512/82512 RM COMMUNICATIONS 1&C 12801/82801	
RP	RP3 12616/82616	RP 3&2 MODS 1-3 287-01-45-82 287-02-45-81 287-03-45-83	RP 1&C 10239-A/80239	
SH	SH3 10176/80176	SH2 10177/80177	SH 1&C 10287-F/80287	
SK	SK 3&2 12650/82650		SK 1&C 12652/82652	
SM	SM 3&2 12104-A/72104-A		SM 1&C 12104-A/82104-A	
STG	STG 3&2 V1 12497/82497 STG 3&2 V2 12498/82498		STG 1&C 12499/82499	

# MANDATORY COURSE REQUIREMENTS

Table 3.--Mandatory Rating-Specific Course Requirements  
for All Ratings

Per BUPERSINST 1430.16 (Advancement Manual), successful completion of class "A" school fulfills the requirements for completion of the mandatory rate courses when participating in the E-4 examination only (does not apply to CT and PH ratings).

RATING	MANDATORY RATING-SPECIFIC COURSE REQUIREMENTS			
	E-4	E-5	E-6	E-7
STS	STS 3&2 12486/82486		STS 1&C 12488/82488	
SW	SW V1 12529/82529 SEABEE COMBAT HANDBOOK V1 12003/82003	SW V1 and V2 12529/82529 12530/82530 SEABEE COMBAT HANDBOOK V1 12003/82003	NCF/SEABEE 1&C 12543/82543 SEABEE COMBAT HANDBOOK V2 12004/82004	NCF/SEABEE 1&C 12543/82543 SEABEE COMBAT HANDBOOK V2 12004/82004
TM	TM3 10168/80168	TM2 12435/82435	TM 1&C 10164-D	
UT	UT3 12532/82532 SEABEE COMBAT HANDBOOK V1 12003/82003	UT2 10662/80662 SEABEE COMBAT HANDBOOK V1 12003/82003	UT ADVANCED 12534/82534 NCF/SEABEE 1&C 12543/82543 SEABEE COMBAT HANDBOOK V2 12004/82004	
YN	YN 3&2 12613/82613		YN 1&C 12614/82614	